



NRG Montville Operations Inc.
Montville Generating Station
74 Lathrop Road
Uncasville, CT 06382

Main Phone # 860.848.9248
Fax # 860.848.6006

August 29, 2017

Ms. Jessica Stefanowicz
Connecticut Department of Energy and Environmental Protection
79 Elm Street
Hartford, Connecticut 06106

Subject: *Semi-Annual Site Status Update*
Montville Generating Station, Montville Power LLC, Montville, CT

Dear Ms. Stefanowicz:

Montville Power LLC is submitting the enclosed Semi-Annual Site Status Update for the Montville Generating Station in Montville, Connecticut. This report provides a site status update for the period of December 2016 through May 2017 at the site.

Should you have any questions or require further information, please call Mr. Ian Cambridge at (860) 848-6017.

Thank you,

A handwritten signature in blue ink, appearing to read "Nick Volturno", with a long, sweeping horizontal line extending to the right.

Nick Volturno
Plant Manager
Montville Power LLC

Enclosure(s)

cc: Juan Perez, USEPA (e-copy only)
 Bob Spooner, NRG (e-copy only)
 Ian Cambridge, NRG Montville (hard copy and e-copy)
 Andrew D. Walker, LEP, APTIM (e-copy only)
 File (hard copy and e-copy)



APTIM
150 Royall Street
Canton, MA 02021
Tel: 617.589.6143
Fax: 617.589.1008
www.aptim.com

August 9, 2017

Project #: 631207126.01021320

Ms. Jessica Stefanowicz
Connecticut Department of Energy and Environmental Protection
79 Elm Street
Hartford, Connecticut 06106

**Subject: Semi-Annual Site Status Update
Montville Generating Station
Montville, Connecticut**

Dear Ms. Stefanowicz:

On behalf of Montville Power LLC (Montville Power) and its parent company, NRG Energy, Inc. (NRG), Aptim Environmental and Infrastructure, Inc. (APTIM), formerly CB&I Environmental and Infrastructure, Inc., has prepared this letter to provide a semi-annual site status update for the subject site. A Site Plan is provided as **Figure 1**. In addition, APTIM is providing the Connecticut Department of Energy & Environmental Protection (CTDEEP) with the schedule for continuing environmental activities at the site. This report covers the period of December 2016 through May 2017.

GROUNDWATER MONITORING

Pilot Test Groundwater Sampling – December 2016 through March 2017

Groundwater sampling was performed between December 2, 2016 and March 16, 2017 specifically for the groundwater remediation injection pilot test in AOC 12. The pilot test groundwater monitoring results have been previously transmitted to CTDEEP and are discussed in 6 separate reports (CB&I, 2017b-g). The pilot test groundwater sampling results are included in **Tables 1** and **3**; however, they are not discussed further herein.

Transfer Act Groundwater Sampling – January 2017

Semi-annual compliance groundwater monitoring during this reporting period was conducted on January 16 and 17, 2017 at the locations and for the parameters listed in the table below. During the January 2017 event, groundwater samples were collected from existing wells to monitor groundwater concentration trends of metals and to assess compliance with applicable criteria.

Sample Location	Laboratory Analysis
	Total As, Be, Cu, Ni, V, Zn by USEPA Method 6010C or low level by USEPA Method 6020A
AOC3-SB1-MW1	X
AOC3-SB4-MW2	X
AOC12-MW301	X
AOC12-MW302	X

Sample Location	Laboratory Analysis
	Total As, Be, Cu, Ni, V, Zn by USEPA Method 6010C or low level by USEPA Method 6020A
AOC12-MW304R	X
AOC12-MW305	X
AOC12-MW306	X
MW-11	X
NRG-MW5	X (low level)
NRG-MW7	X

Well NRG-MW3 was dry and was not sampled as planned during the January 2017 sampling event.

During the January 2017 sampling event, depth to groundwater was measured at each of the monitoring wells using an electronic interface probe (IP). The IP used detects water and light non-aqueous phase liquid (LNAPL), if present, to within accuracy of 0.01 foot. LNAPL was not detected in monitoring wells gauged during this event. Non-detects of LNAPL are consistent with previous results. Results of water level monitoring from the January 2017 sampling event are summarized in **Table 1**.

During the January 2017 sampling event, APTIM collected groundwater samples from the monitoring wells using a modified low flow sampling technique. Well locations are shown on **Figure 1**. Each well was pumped at a rate that produced little or no draw down while parameters including temperature, pH, oxidation reduction potential (ORP), dissolved oxygen (DO) and conductivity were monitored. Groundwater samples were then collected after the parameters stabilized to ensure that the each sample was representative of local aquifer conditions. Based upon previous exceedances of the Remediation Standard Regulations (RSR) criteria in groundwater samples collected at the site, groundwater samples were submitted to Accutest Laboratories of Marlborough, Massachusetts for analysis of select total metals including arsenic, beryllium, copper, nickel, vanadium, and zinc. The complete laboratory analytical report for the January 2017 sampling event is included in **Attachment 1**.

Groundwater analytical results from the January 2017 sampling event are summarized in **Table 2** (GA groundwater area monitoring wells) and **Table 3** (GB groundwater area monitoring wells). As appropriate, **Tables 2 and 3** compare groundwater analytical results to the Surface Water Protection Criteria (SWPC), Additional SWPC (vanadium), Alternative SWPC (arsenic, beryllium, copper, and zinc), and groundwater protection criteria (GWPC). CTDEEP approved the Additional and Alternative SWPC for the subject site in their March 13, 2013 letter (CTDEEP, 2013).

The groundwater data from several previous rounds of sampling have indicated that there is little difference between dissolved and total metals concentrations in groundwater at the Montville site (Shaw, 2010). Therefore, at appropriate wells, such as NRG-MW5, comparison of total metals concentrations to the Water Quality Criteria (WQC) is appropriate to evaluate potential impact to the Bartlett Cove area. This comparison is presented in **Table 4**, and includes both freshwater and saltwater criteria.

The concentrations of metals detected in groundwater samples collected during this reporting period are generally consistent with previous results. The data for January 2017 groundwater results are presented in **Tables 2, 3, and 4** and include the following exceedances:

- At monitoring well NRG-MW5, where comparison to the GWPC (**Table 2**) and WQC (**Table 4**) is appropriate, the concentration of nickel detected in the groundwater sample from January 2017 slightly exceeded the chronic saltwater WQC. The remaining metals were reported at concentrations below the WQC. Detected concentrations were below the GWPC.

- Concentrations of arsenic detected range from below the detection limit to 160 micrograms per liter (µg/L) at AOC12-MW306 (**Table 3**). The concentrations of arsenic detected in January 2017 exceeded the Alternative SWPC (10 µg/L) at 4 (plus 1 field duplicate) of the 9 GB Area wells that were sampled.

Laboratory Analytical - QA/QC Evaluation for Transfer Act Groundwater Sampling

Laboratory analysis completed as part of this assessment was conducted in accordance with CTDEEP's Reasonable Confidence Protocol and the site specific Quality Assurance Project Plan (QAPP). The site specific QAPP was developed for the subject site in accordance with U.S. Environmental Protection Agency (USEPA) guidance (Shaw, 2011). The QAPP presents the requirements and procedures for conducting field sampling activities and investigations at the site so that (1) the data quality objectives specified for this project are met, (2) the field sampling protocols are documented and reviewed in a consistent manner, and (3) scientifically valid and defensible data are collected. Field sampling activities discussed above were completed in general compliance with the QAPP that has been generated for the site.

APTIM requested that laboratory analysis be conducted in accordance with the QAPP and CTDEEP's Reasonable Confidence Protocol (CTDEP, 2007). APTIM performed a data validation review for the laboratory reports and documented the results in a data validation worksheet. The data validation worksheets are included with the laboratory reports in **Attachment 1**. These worksheets are consistent with the data quality assessment and data usability evaluations detailed in CTDEEP guidance (CTDEP, 2009).

In general, laboratory analyses were completed in accordance with the site QAPP and CTDEEP's Reasonable Confidence Protocol. However, a few minor quality assurance/quality control (QA/QC) issues, which are summarized in the validation worksheet and laboratory report narrative, were identified. These identified QA/QC issues resulted in some detection limits and reported results being qualified. QA/QC issues noted included:

- MC49399: The serial dilution sample for magnesium indicated possible matrix interference. However, no qualification is necessary as this is not an NRG sample and batch QC was performed.
- MC49399: The serial dilution sample for zinc indicated possible matrix interference. The zinc results for AOC12-MW301 will be qualified as estimated ("J") due to serial dilution %D >10 and sample results > 50 times the instrument detection limit (IDL).
- MC49399A: The relative percent difference (RPD) for serial dilution samples indicated beryllium, copper, nickel, vanadium, and zinc were outside control limits and indicated possible matrix interference. However, no qualification is necessary as this is not an NRG sample and batch QC was performed.

A number of sample results were reported at concentrations less than the reporting limit but greater than the method detection limit. Although this is not specifically a QA/QC issue, the results should be considered estimated and are flagged with a "J". In summary, each of the identified issues had no overall effect on the conclusions drawn from the data, and the data is acceptable for the purposes of this submittal.

ENGINEERED CONTROL INSPECTION AND MAINTENANCE

The Engineered Controls in AOC 3B, AOC 5, AOC 9, and AOC 12 were constructed as reported in the Semi-Annual Site Status Update/Engineered Control and SIP Completion Report (CB&I, 2016b). Routine and non-routine inspections will be performed to confirm that the Engineered Controls continue to perform as designed. The final quarterly routine post-construction inspection was performed on December 22, 2016. The inspection report is provided in **Attachment 2**. As no maintenance has been required from the recent inspections, routine inspections will now be performed on a semi-annual schedule. Non-routine cap inspections should be performed after major storm events (i.e., approximately 3 inches in a 24-hour period, approximately 2 inches in a 6-hour period, or approximately 1 inch in a 1-hour period). There were no major storm events during this reporting period.

(www.wunderground.com). No impacts, problems, or damage were identified during the routine inspections and, thus, no repairs were made during this reporting period.

As detailed in the Engineering Control Part 2, Addendum 1 (CB&I, 2014), the site-specific Industrial/Commercial Direct Exposure Criteria (I/C DEC) for arsenic was calculated using a site-specific value for exposure frequency, which was set at 48 days per year. The site-specific exposure frequency of 48 days per year assumes that an employee would access AOC 5 or AOC 9 for 1 day per week for no more than 48 weeks per year. The institutional controls implemented to assure that a worker will not be exposed to soil for more than 48 days per year include: perimeter security fences with locked gates, controlled keys, and signage; entry controlled by time-limited work orders; and exposure time tracking by access log books. The fencing and signage was installed as part of the Engineered Control construction. Montville Power maintains records of work performed in secured areas of AOC 5 and AOC 9 and no employee has accessed these areas for more than 48 days in the past 12 months (June 1, 2016 through May 31, 2017).

The next annual groundwater monitoring event for the AOC 9 Engineered Control is scheduled for June 2017 and will be discussed in the next status report.

ADDITIONAL ENVIRONMENTAL ACTIVITIES

Additional environmental activities occurring at the site between December 2016 and May 2017 are described below:

- Baseline groundwater monitoring for the pilot test per the Groundwater RAP (CB&I, 2016a) was completed on December 2, 2016. The pilot test injections of EB and TB were completed on December 22, 2016. Post-injection groundwater monitoring for the pilot test was completed in March 2017. The results of the pilot test have been reported separately to CTDEEP (CB&I, 2017b-g). Montville Power is currently executing the contractor bidding process for the full-scale injection of TB as the pilot test was considered a success.

SITE SCHEDULE

Outlined below is the site schedule that Montville Power and NRG expect to follow.

Activity	Anticipated Date
Post Construction Engineered Control Inspections (Semi-Annual)	Q3 2017 & Q1 2018
Compliance Groundwater Monitoring (Semi-Annual and EC Annual)	Q3 2017 & Q1 2018
ELUR Complete	2018
Groundwater RAP Injections Begin	Q3 2017
Groundwater RAP Completion Report	2022

NRG and Montville Power will continue to provide updates on the status of response actions at the subject site on a semi-annual basis as requested by CTDEEP. Plans, submittals, and reports will be copied to the USEPA.

If you have any questions regarding this Site Status Update, please feel free to contact me directly at 617-589-6143 or via e-mail at Andrew.Walker@aptim.com.

Respectfully submitted,
Aptim Environmental & Infrastructure, Inc.

Andrew D. Walker, LEP, LSP
Project Manager
Aptim Environmental and Infrastructure, Inc.

Enclosures:

Tables

Table 1 - Groundwater Gauging Data – December 2016 through May 2017
Table 2 - Groundwater Analytical Results – GA Area December 2016 through May 2017
Table 3 - Groundwater Analytical Results – GB Area December 2016 through May 2017
Table 4 - Groundwater Analytical Results – NRG-MW5 Total Metals Compared to WQC

Figures

Figure 1 - Site Plan
Figure 2 – Groundwater Injection Pilot Test Area Site Plan

Attachments

Attachment 1 - Laboratory Analytical Reports for Groundwater with Data Validation Worksheets
Attachment 2 - Engineered Control Inspection Reports

cc: Mr. Ian Cambridge, Montville Power LLC (hard copy and electronic)
Mr. Robert Spooner, NRG (electronic only)
Mr. Juan Perez, USEPA (electronic only)

REFERENCES

- CB&I, 2013. Engineering Control Submittal Part 2. Montville Electric Generating Station, Montville, Connecticut. February 2013.
- CB&I, 2014. Engineering Control Part 2, Addendum 1. Montville Generating Station, Montville Power LLC, Montville & Waterford, CT. CB&I Environmental and Infrastructure, Inc. September 16, 2014.
- CB&I, 2016a. Remedial Action Plan for Groundwater, Montville Electric Generating Station, Montville, Connecticut. CB&I Environmental and Infrastructure, Inc. February 25, 2016 (revisions dated June 16, 2016).
- CB&I, 2016b. Semi-Annual Site Status Update/Engineered Control and SIP Completion Report, Montville Generating Station, Montville, Connecticut. CB&I Environmental and Infrastructure, Inc. April 8, 2016.
- CB&I, 2016c. Site Wide Remedial Action Plan, Montville Generating Station, Montville, Connecticut. CB&I Environmental and Infrastructure, Inc. July 19, 2016.
- CB&I, 2017a. Semi-Annual Site Status Update, Montville Generating Station, Montville, Connecticut. CB&I Environmental and Infrastructure, Inc. January 16, 2017.
- CB&I, 2017b. TA-326 Baseline Monitoring Data Transmittal, Groundwater Injection Pilot Test, Montville Generating Station, Montville, Connecticut. CB&I Environmental and Infrastructure, Inc. January 23, 2017.
- CB&I, 2017c. TA-326 4 Weeks Post-Injection Monitoring Data Transmittal, Groundwater Injection Pilot Test, Montville Generating Station, Montville, Connecticut. CB&I Environmental and Infrastructure, Inc. March 6, 2017.
- CB&I, 2017d. TA-326 8 Weeks Post-Injection Monitoring Data Transmittal, Groundwater Injection Pilot Test, Montville Generating Station, Montville, Connecticut. CB&I Environmental and Infrastructure, Inc. March 24, 2017.
- CB&I, 2017e. TA-326 Pilot Test Injection Completion Report, Montville Generating Station, Montville, Connecticut. CB&I Environmental and Infrastructure, Inc. March 30, 2017.
- CB&I, 2017f. TA-326 12 Weeks Post-Injection Monitoring Data Transmittal, Groundwater Injection Pilot Test, Montville Generating Station, Montville, Connecticut. CB&I Environmental and Infrastructure, Inc. May 4, 2017.
- CB&I, 2017g. TA-326 Pilot Test Final Groundwater Monitoring Results Summary Report, Groundwater Injection Pilot Test, Montville Generating Station, Montville, Connecticut. CB&I Environmental and Infrastructure, Inc. June 13, 2017.
- CTDEP, 2007. Laboratory Quality Assurance and Quality Control Guidance, Reasonable Confidence Protocols Guidance Document. Connecticut Department of Environmental Protection. November 2007.
- CTDEP, 2009. Laboratory Quality Assurance and Quality Control, Data Quality Assessment and Data Usability Evaluation. Connecticut Department of Environmental Protection. May 2009.
- CTDEEP, 2013. Request for Criteria for Additional Polluting Substances and Alternative Criteria, Montville Station, 74 Lathrop Road, Montville. Connecticut Department of Energy & Environmental Protection. March 13, 2013.
- CTDEEP, 2016. Groundwater Remedial Action Plan, Montville Station, 74 Lathrop Road, Montville, REM ID 4204. June 30, 2016

Shaw, 2010. Semi-annual Site Status Update and Schedule Adjustment Request, Montville Generating Station, Montville, Connecticut. Shaw Environmental, Inc. February 17, 2010.

Shaw, 2011. Quality Assurance Project Plan, NRG Montville Generating Station. Shaw Environmental, Inc. March 2008, Revised August 2011.

Shaw, 2013. Notice of Inaccessible Soil Exemptions, Montville Generating Station, Montville, Connecticut. Shaw Environmental, Inc. April 30, 2013.

Tables

TABLE 1
GROUNDWATER GAUGING DATA
(DECEMBER 1, 2016 - MAY 31, 2017)

06/26/17

Montville Power LLC
74 Lathrop Road
Montville, Connecticut

Location	Date	Reference Elevation (Feet)	Depth to Water (Feet)	Depth to LNAPL (Feet)	LNAPL Thickness (Feet)	Groundwater Elevation (Feet)	Notes
AOC12-MW-301	01/16/17	14.44	11.95	--	--	2.49	DTB = 18.40'
AOC12-MW-301	03/16/17	14.44	11.45	--	--	2.99	DTB = 18.45'
AOC12-MW-302	01/16/17	10.85	7.20	--	--	3.65	DTB = 13.95'
AOC12-MW-302	03/16/17	10.85	6.40	--	--	4.45	DTB = 14.02'
AOC12-MW-303	12/01/16	8.49	3.55	--	--	4.94	DTB = 11.85'
AOC12-MW-303	02/15/17	8.09	NM	--	--	NA	Pipe cut 0.4 ft., DTB = 11.80 before/11.40 after
AOC12-MW-303	03/16/17	8.09	NM	--	--	NA	Under ice, unable to access.
AOC12-MW-304R	01/16/17	13.65	10.22	--	--	3.43	DTB = 17.55'
AOC12-MW-304R	03/16/17	13.65	9.80	--	--	3.85	DTB = 17.65'
AOC12-MW-305	01/16/17	13.57	11.45	--	--	2.12	DTB = 17.92'
AOC12-MW-306	01/16/17	13.82	11.95	--	--	1.87	DTB = 19.00'
AOC12-MW-306	03/16/17	13.82	12.20	--	--	1.62	DTB = 19.05'
AOC12-MW-401	12/02/16	13.62	11.50	--	--	2.12	DTB = 22.80'
AOC12-MW-401	01/17/17	13.62	12.05	--	--	1.57	DTB = 22.85'
AOC12-MW-401	02/15/17	13.62	10.85	--	--	2.77	DTB = 22.87'
AOC12-MW-401	03/16/17	13.62	11.95	--	--	1.67	DTB = 22.80'
AOC12-MW-402	12/02/16	9.96	6.60	--	--	3.36	DTB = 19.75'
AOC12-MW-402	01/17/17	9.96	7.25	--	--	2.71	DTB = 19.60'
AOC12-MW-402	02/15/17	9.96	6.20	--	--	3.76	DTB = 19.65'
AOC12-MW-402	03/16/17	9.96	6.10	--	--	3.86	DTB = 19.65'
AOC3-SB1-MW-1	01/16/17	10.04	8.00	--	--	2.04	DTB = 14.68'
AOC3-SB4-MW-2	01/17/17	6.51	4.90	--	--	1.61	DTB = 12.00'
EB-01	03/16/17	13.81	10.50	--	--	3.31	DTB = 16.60'
EB-02	03/16/17	14.27	12.65	--	--	1.62	DTB = 15.85'
EB-03	03/16/17	13.95	Dry	--	--	NA	DTB = 10.30'
MW-11	01/17/17	13.41	7.01	--	--	6.40	DTB = 15.85'
MW-A	03/16/17	10.87	6.05	--	--	4.82	DTB = 14.84'
MW-B	03/16/17	19.88	12.68	--	--	7.20	DTB = 16.68'
MW-C	03/16/17	13.02	11.61	--	--	1.41	DTB = 14.72'
MW-D	03/16/17	13.20	11.33	--	--	1.87	DTB = 14.90'
NRG-MW-03	01/17/17	49.06	43.55	--	--	5.51	DTB = 43.63'
NRG-MW-05	01/17/17	10.59	9.50	--	--	1.09	DTB = 20.30'
NRG-MW-07	01/17/17	8.05	7.85	--	--	0.20	DTB = 17.25'

Notes: -- = Not Detected NA = Not Available NM = Not Measured DTB = Depth to Bottom
 <0.01 = Trace amount LNAPL detected

Table 2
Groundwater Analytical Results
GA Area December 2016 to May 2017
Montville Power LLC
Montville, CT

		GWPC	NRG-MW-05 1/17/2017
Metals (Total)			
Arsenic	(ug/L)	10	2.8
Beryllium	(ug/L)	4	<1.0
Copper	(ug/L)	1300	<4.0
Nickel	(ug/L)	100	11.1
Vanadium	(ug/L)	50	6.3
Zinc	(ug/L)	5000	18.4
Field Parameters			
pH		NE	6.08
ORP	(mV)	NE	103.6
Dissolved Oxygen	(mg/L)	NE	0.69
Specific Conductivity	(mS/cm)	NE	0.139
Temperature	(deg.C)	NE	8.51
Turbidity	(NTU)	NE	0.1

Notes:

GWPC = Groundwater Protection Criteria

NE = None Established.

ug/L = micrograms per liter

mg/L = milligrams per liter

mS/cm = milli-Siemens per centimeter

deg. C = degrees Celsius

mV = millivolts

NTU = Nephelometric turbidity units

All results have been validated.

Table 3
Groundwater Analytical Results
GB Area December 2016 to May 2017
Montville Power LLC
Montville, CT

CONSTITUENT	UNITS	SWPC or Alt/Add SWPC (1)	AOC12-MW-301 1/16/2017 Primary	AOC12-MW-302 1/16/2017 Primary	AOC12-MW-304R 1/16/2017 Primary	AOC12-MW-305 1/16/2017 Primary	AOC12-MW-306 1/16/2017 Primary	AOC12-MW-306 1/16/2017 Duplicate 1	AOC12-MW-401 12/2/2016 Primary
Metals (Total)									
Arsenic	(ug/L)	10 (1)	4.3	6.1	4.4	{31.5}	{160}	{152}	{98.2}
Beryllium	(ug/L)	20 (1)	2.5	<1.0	<1.0	<1.0	1.1	1.1	---
Antimony	(ug/L)	86000	---	---	---	---	---	---	---
Copper	(ug/L)	310 (1)	<10	<10	13.1	25.6	<10	<10	---
Iron	(ug/L)	NE	---	---	---	---	---	---	32100
Lead	(ug/L)	810 (1)	---	---	---	---	---	---	---
Magnesium	(ug/L)	NE	---	---	---	---	---	---	5700
Nickel	(ug/L)	880	63.3	13.9	23.8	10.6	29.5	30.3	---
Selenium	(ug/L)	50	---	---	---	---	---	---	---
Vanadium	(ug/L)	4400 (1)	<50	<50	<50	<50	157	145	25.3J
Zinc	(ug/L)	8100 (1)	55.1J	35.4	38.6	50.2	74.5	76.1	---
Metals (Dissolved)									
Arsenic	(ug/L)	10 (1)	---	---	---	---	---	---	{97.0}
Iron	(ug/L)	NE	---	---	---	---	---	---	33000
Magnesium	(ug/L)	NE	---	---	---	---	---	---	5870
Vanadium	(ug/L)	4400 (1)	---	---	---	---	---	---	16.0J
Field Parameters									
pH		---	2.91	4.68	4.8	5.71	4.56	---	6.36
ORP	(mV)	---	399.1	342.8	285	64.2	205.7	---	-23.5
Dissolved Oxygen	(mg/L)	---	0.79	2.44	1.23	0.58	0.53	---	0.8
Specific Conductivity	(mS/cm)	---	0.996	0.111	0.273	0.53	0.453	---	0.386
Temperature	(deg.C)	---	12.21	10.93	11.89	11.75	14.71	---	15.3
Turbidity	(NTU)	---	0.4	0.4	0.1	0.3	<1	---	0

Notes:

SWPC = Surface Water Protection Criteria

--- = Constituent not analyzed for.

(1)= Approved Alternative and Additional SWPC in

March 13, 2013 CTDEEP letter

{Red Highlight} = Result is above appropriate SWPC

J = Less than detection limit, validation qualifier.

NE = None Established.

ug/L = micrograms per liter

mg/L = milligrams per liter

mS/cm = milli-Siemens per centimeter

mV = millivolt

deg.C = degrees Celsius

NTU = Nephelometric turbidity unit

All results have been validated.

Table 3
Groundwater Analytical Results
GB Area December 2016 to May 2017
Montville Power LLC
Montville, CT

CONSTITUENT	UNITS	SWPC or Alt/Add SWPC (1)	AOC12-MW-401 1/17/2017 Primary	AOC12-MW-401 2/15/2017 Primary	AOC12-MW-401 2/15/2017 Duplicate 1	AOC12-MW-401 3/16/2017 Primary	AOC12-MW-401 3/16/2017 Duplicate 1	AOC12-MW-402 12/2/2016 Primary	AOC12-MW-402 12/2/2016 Duplicate 1
Metals (Total)									
Arsenic	(ug/L)	10 (1)	{41.0}	{31.4}	{31.9}	{38.0}	{37.2}	{24.3}	{25.2}
Beryllium	(ug/L)	20 (1)	---	---	---	---	---	---	---
Antimony	(ug/L)	86000	---	---	---	---	---	---	---
Copper	(ug/L)	310 (1)	---	---	---	---	---	---	---
Iron	(ug/L)	NE	20700	21600	---	30300	---	1680	1650
Lead	(ug/L)	810 (1)	---	---	---	---	---	---	---
Magnesium	(ug/L)	NE	<5000	5960	---	10100	---	1360J	1340J
Nickel	(ug/L)	880	---	---	---	---	---	---	---
Selenium	(ug/L)	50	---	---	---	---	---	---	---
Vanadium	(ug/L)	4400 (1)	284	<50	---	61.4	---	0.80J	<0.72
Zinc	(ug/L)	8100 (1)	---	---	---	---	---	---	---
Metals (Dissolved)									
Arsenic	(ug/L)	10 (1)	{27.3}	{30.2}	{27.7}	{27.3}	{29.8}	{24.1}	{24.3}
Iron	(ug/L)	NE	20800	20600	---	26800	---	1670	1700
Magnesium	(ug/L)	NE	5640	5680	---	8830	---	1370J	1370J
Vanadium	(ug/L)	4400 (1)	<50	<50	---	<50	---	<0.72	0.80J
Field Parameters									
pH		---	6.35	6.4	---	6.22	---	6.47	---
ORP	(mV)	---	-33.7	3.4	---	-29.3	---	-4.2	---
Dissolved Oxygen	(mg/L)	---	0.53	0.49	---	0.61	---	1.23	---
Specific Conductivity	(mS/cm)	---	0.342	0.33	---	0.427	---	0.073	---
Temperature	(deg.C)	---	14.55	14.51	---	13.07	---	14.3	---
Turbidity	(NTU)	---	0.2	0.4	---	0	---	0	---

Notes:

SWPC = Surface Water Protection Criteria

--- = Constituent not analyzed for.

(1)= Approved Alternative and Additional SWPC in

March 13, 2013 CTDEEP letter

{Red Highlight} = Result is above appropriate SWPC

J = Less than detection limit, validation qualifier.

NE = None Established.

ug/L = micrograms per liter

mg/L = milligrams per liter

mS/cm = milli-Siemens per centimeter

mV = millivolt

deg.C = degrees Celsius

NTU = Nephelometric turbidity unit

All results have been validated.

Table 3
Groundwater Analytical Results
GB Area December 2016 to May 2017
Montville Power LLC
Montville, CT

CONSTITUENT	UNITS	SWPC or Alt/Add SWPC (1)	AOC12-MW-402 1/17/2017 Primary	AOC12-MW-402 1/17/2017 Duplicate 1	AOC12-MW-402 2/15/2017 Primary	AOC12-MW-402 3/16/2017 Primary	AOC3-SB1-MW-1 1/16/2017 Primary	AOC3-SB1-MW-1 1/17/2017 Primary	AOC3-SB4-MW-2 1/17/2017 Primary
Metals (Total)									
Arsenic	(ug/L)	10 (1)	{35.2}	{34.2}	9	6.5	---	{11.7}	5.1
Beryllium	(ug/L)	20 (1)	---	---	---	---	---	2.2	<1.0
Antimony	(ug/L)	86000	---	---	---	---	---	---	---
Copper	(ug/L)	310 (1)	---	---	---	---	---	<10	<10
Iron	(ug/L)	NE	1200	---	300J	117	---	---	---
Lead	(ug/L)	810 (1)	---	---	---	---	---	---	---
Magnesium	(ug/L)	NE	<5000	---	<5000J	<5000	---	---	---
Nickel	(ug/L)	880	---	---	---	---	---	66	22.1
Selenium	(ug/L)	50	---	---	---	---	---	---	---
Vanadium	(ug/L)	4400 (1)	<50	---	<50	<50	---	<50	<50
Zinc	(ug/L)	8100 (1)	---	---	---	---	---	101	69.5
Metals (Dissolved)									
Arsenic	(ug/L)	10 (1)	{27.6}	{26.3}	8.7	4.7	---	---	---
Iron	(ug/L)	NE	505	---	140	<100	---	---	---
Magnesium	(ug/L)	NE	<5000	---	<5000	<5000	---	---	---
Vanadium	(ug/L)	4400 (1)	<50	---	<50	<50	---	---	---
Field Parameters									
pH		---	7.26	---	8.98	7.11	3.03	---	5.79
ORP	(mV)	---	-73.1	---	52.7	69.7	359.7	---	54.9
Dissolved Oxygen	(mg/L)	---	0.55	---	5.26	8.84	4.49	---	0.68
Specific Conductivity	(mS/cm)	---	0.177	---	0.151	0.185	0.534	---	0.151
Temperature	(deg.C)	---	12.96	---	4.29	3.7	14.98	---	9.11
Turbidity	(NTU)	---	0.8	---	0.8	---	9.8	---	0.9

Notes:

SWPC = Surface Water Protection Criteria

--- = Constituent not analyzed for.

(1)= Approved Alternative and Additional SWPC in

March 13, 2013 CTDEEP letter

{Red Highlight} = Result is above appropriate SWPC

J = Less than detection limit, validation qualifier.

NE = None Established.

ug/L = micrograms per liter

mg/L = milligrams per liter

mS/cm = milli-Siemens per centimeter

mV = millivolt

deg.C = degrees Celsius

NTU = Nephelometric turbidity unit

All results have been validated.

Table 3
Groundwater Analytical Results
GB Area December 2016 to May 2017
Montville Power LLC
Montville, CT

CONSTITUENT	UNITS	SWPC or Alt/Add SWPC (1)	MW-11 1/17/2017 Primary	NRG-MW-07 1/17/2017 Primary
Metals (Total)				
Arsenic	(ug/L)	10 (1)	<3.0	{34.2}
Beryllium	(ug/L)	20 (1)	<1.0	<1.0
Antimony	(ug/L)	86000	---	---
Copper	(ug/L)	310 (1)	<10	<10
Iron	(ug/L)	NE	---	---
Lead	(ug/L)	810 (1)	---	---
Magnesium	(ug/L)	NE	---	---
Nickel	(ug/L)	880	26.9	<10
Selenium	(ug/L)	50	---	---
Vanadium	(ug/L)	4400 (1)	<50	<50
Zinc	(ug/L)	8100 (1)	<20	84.4
Metals (Dissolved)				
Arsenic	(ug/L)	10 (1)	---	---
Iron	(ug/L)	NE	---	---
Magnesium	(ug/L)	NE	---	---
Vanadium	(ug/L)	4400 (1)	---	---
Field Parameters				
pH		---	4.89	6.14
ORP	(mV)	---	283	11.4
Dissolved Oxygen	(mg/L)	---	12.13	0.92
Specific Conductivity	(mS/cm)	---	0.319	2.383
Temperature	(deg.C)	---	9.66	10.87
Turbidity	(NTU)	---	0.2	0.9

Notes:

SWPC = Surface Water Protection Criteria

--- = Constituent not analyzed for.

(1)= Approved Alternative and Additional SWPC in

March 13, 2013 CTDEEP letter

{Red Highlight} = Result is above appropriate SWPC

J = Less than detection limit, validation qualifier.

NE = None Established.

ug/L = micrograms per liter

mg/L = milligrams per liter

mS/cm = milli-Siemens per centimeter

mV = millivolt

deg.C = degrees Celsius

NTU = Nephelometric turbidity unit

All results have been validated.

Table 4
Groundwater Analytical Results
NRG-MW5 Total Metals Compared to WQC
Montville Power LLC
Montville, Connecticut

Constituent (ug/L)	Chronic WQC Fresh	Chronic WQC Salt	NRG-MW-05 3/11/2014	NRG-MW-05 6/11/2014	NRG-MW-05 9/26/2014	NRG-MW-05 12/5/2014	NRG-MW-05 5/28/2015	NRG-MW-05 12/4/2015	NRG-MW-05 6/16/2016	NRG-MW-05 1/17/2017
Arsenic	150	36	4.9	4.3	8.3	9.4	6.3	8.1J	4.7	2.8
Beryllium	NE	NE	0.084BJ	0.093BJ	0.098BJ	0.055BJ	0.083BJ	0.067BJ	0.097BJ	<1.0
Copper	4.8	3.1	<0.89	<0.89	1.7BJ	0.61BJ	<1.0	<1.0	0.53BJ	<4.0
Nickel	28.9	8.2	{9.5}	{9.1}	{12.6}	{10.3}	{9.4}	{10.2}J	{9.7}	{11.1}
Vanadium	NE	NE	4	3.3BJ	4.3	4.8	5.9BJ	6.3BJ	7.9BJ	6.3
Zinc	65	81	<18.9U	<15.1U	19.7	<15.6U	<18.0U	<17.2U	28.9	18.4

Notes:

WQC = Numerical Water Quality Criteria for Chemical Constituents.

ug/L = micrograms per liter.

B = Less than detection limit (inorganics), lab qualifier.

J = Less than detection limit, validation qualifier.

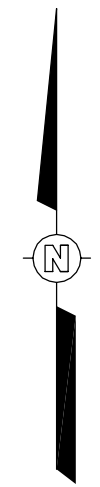
U = Result determined to be non-detect at indicated detection limit, based on validation protocol.

{Red Highlight} = Result is greater than WQC Chronic Fresh or WQC Chronic Salt.

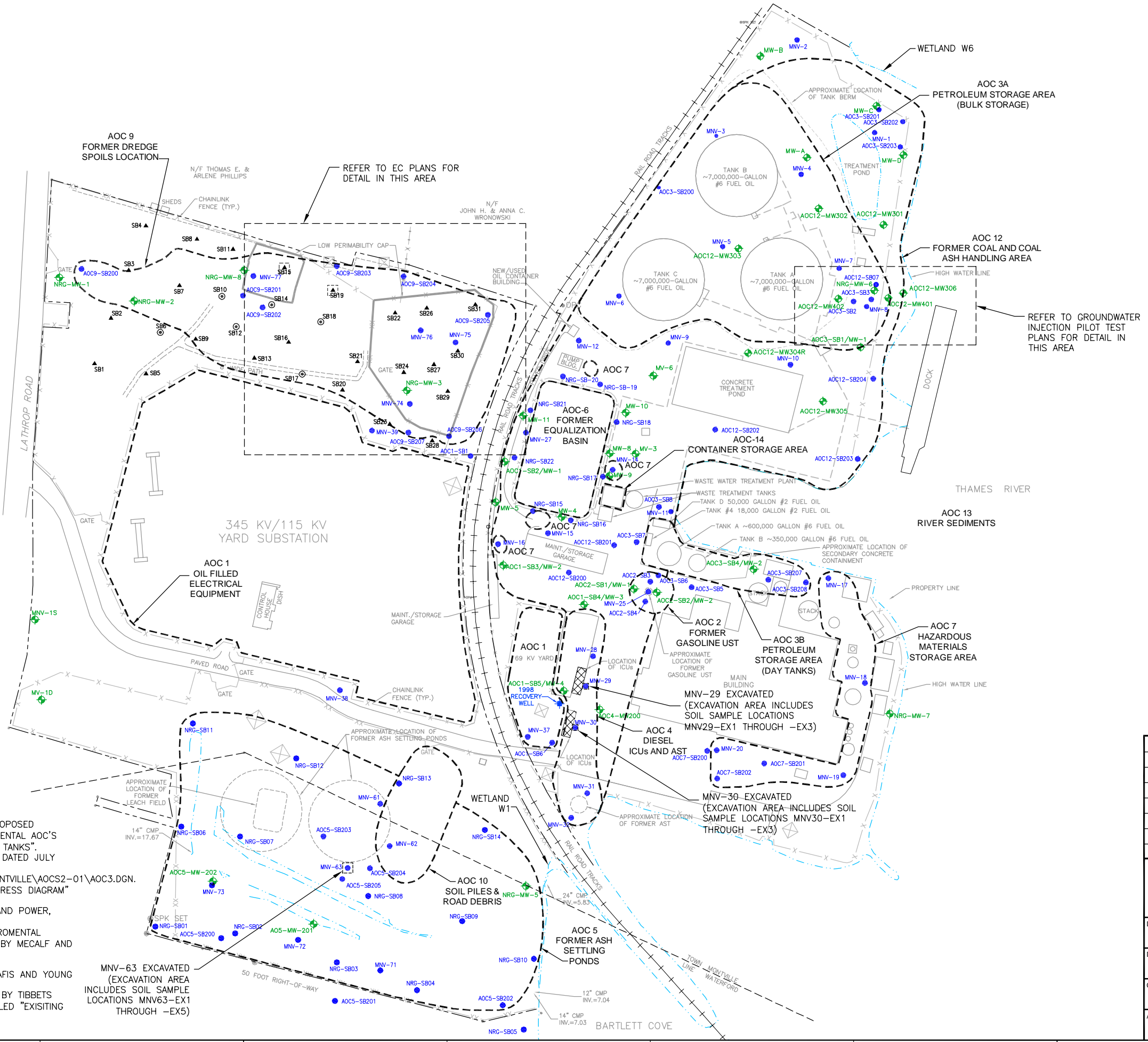
NE = None established.

All results have been validated.

Figures




REFERENCE:
1. "FIGURE 6 - PREVIOUS & PROPOSED SAMPLE LOCATIONS OF ENVIRONMENTAL AOC'S NO.3 PETROLEUM BULK STORAGE TANKS". PREPARED BY METCALF & EDDY. DATED JULY 2001. FILE: P:\EVERYONE\NRG\DRAWINGS\MONTVILLE\AOC2-01\AOC3.DGN.
2. "EMERGENCY INGRESS AND EGRESS DIAGRAM" JUNE 2006 PREPARED BY NRG MONTEVILLE AND POWER, LLC.
3. "FIGURE 2 LOCATION OF ENVIROMENTAL AREAS OF CONCERN" PREPARED BY MECALF AND EDDY. DATED APRIL, 2001.
4. FIELD SURVEY CREATED BY NAFIS AND YOUNG MAY 31, 2006.
5. FIELD SURVEY PLAN CREATED BY TIBBETS ENGINEERING CORPORATION ENTITLED "EXISITING CONDITIONS", DATED 7/10/07.




- LEGEND:**
- PROPERTY BOUNDARY
 - FUEL OIL PIPING
 - FENCE LINE
 - GROUNDWATER MONITORING WELLS
 - RECOVERY WELL
 - SOIL BORING LOCATION
 - LOCATION OF DEEP SOIL BORINGS FORMER DREDGE MATERIALS LOCATION INVESTIGATION-OCTOBER, 2000
 - LOCATION OF SHALLOW SOIL BORINGS FORMER DREDGE MATERIALS LOCATION INVESTIGATION-OCTOBER, 2000
 - WETLAND LINE OR WATER COURSE
 - DIESEL INTERNAL COMBUSTION (ICU) ENGINE UNITS
 - ELECTRICAL TOWER
 - AREA OF CONCERN (AOC)

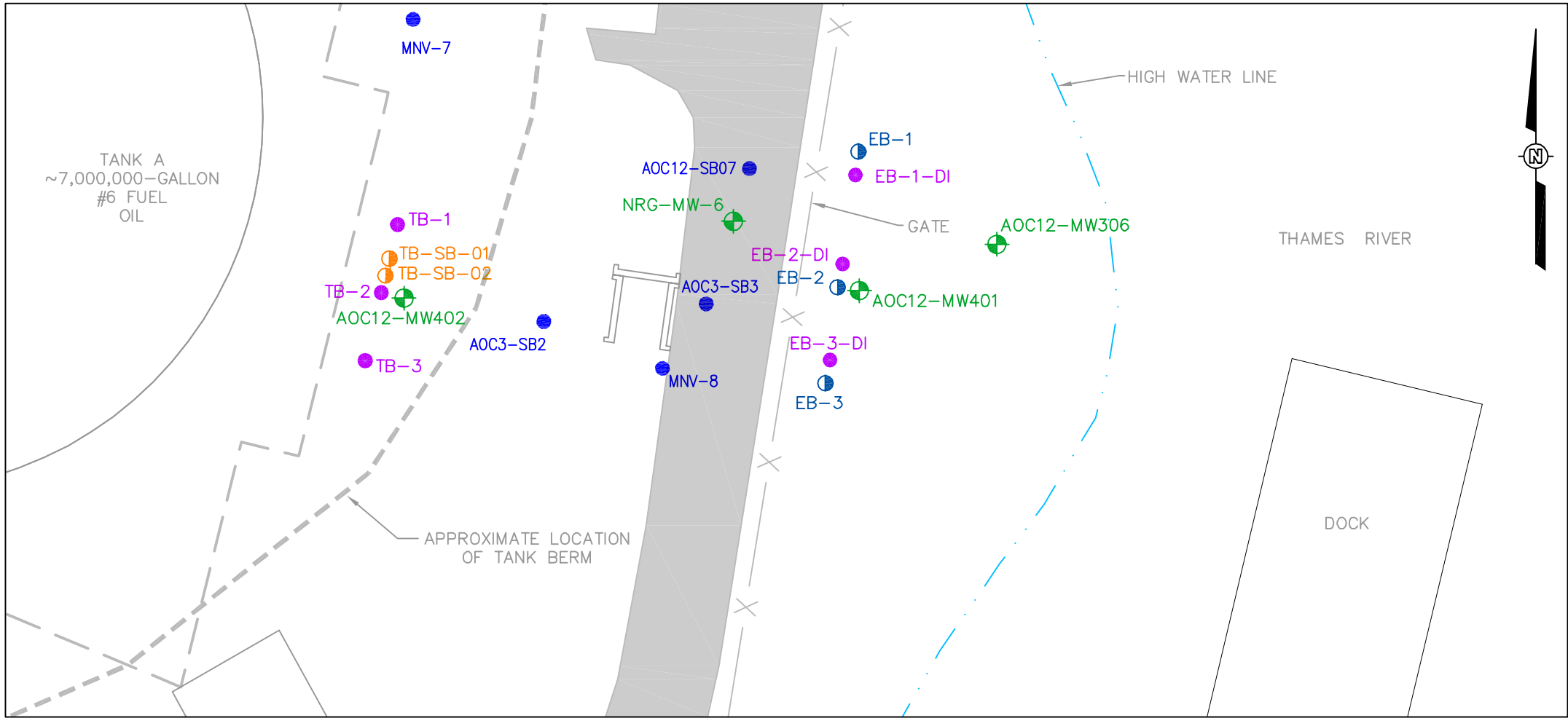


REV	DESCRIPTION / ISSUE	DATE	APPROVED

	150 Royall Street Canton MA. 02021
---	---------------------------------------


DESIGNED BY: <i>AW/AS</i>	 NRG ENERGY, INC. MONTVILLE POWER LLC UNCASVILLE, CONNECTICUT		
DRAWN BY: <i>GJ</i>			
CHECKED BY: <i>PF/VT</i>			
APPROVED BY: <i>AW</i>	SITE PLAN MONTVILLE GENERATING STATION MONTVILLE, CONNECTICUT		
DATE: 1/27/17	SCALE: AS SHOWN	DRAWING NO. 631207126-B3	SHEET NO. --

REFERENCE:
1. "FIGURE 6 - PREVIOUS & PROPOSED SAMPLE LOCATIONS OF ENVIRONMENTAL AOC'S NO.3 PETROLEUM BULK STORAGE TANKS". PREPARED BY METCALF & EDDY. DATED JULY 2001. FILE: P:\EVERYONE\NRG\DRAWINGS\MONTVILLE\AOC2-01\AOC3.DGN.
2. "EMERGENCY INGRESS AND EGRESS DIAGRAM" JUNE 2006 PREPARED BY NRG MONTEVILLE AND POWER, LLC.
3. "FIGURE 2 LOCATION OF ENVIROMENTAL AREAS OF CONCERN" PREPARED BY MECALF AND EDDY. DATED APRIL, 2001.
4. FIELD SURVEY CREATED BY NAFIS AND YOUNG MAY 31, 2006.
5. FIELD SURVEY PLAN CREATED BY TIBBETS ENGINEERING CORPORATION ENTITLED "EXISITING CONDITIONS", DATED 7/10/07.



- LEGEND:**
- FUEL OIL PIPING
 - FENCE LINE
 - GROUNDWATER MONITORING WELLS
 - EB INJECTION WELLS (STICKUP RISERS OUTSIDE OF FENCE)
 - APPROXIMATE TB OR EB DIRECT INJECTION POINT LOCATIONS (GEOPROBE) FOR PILOT TEST - DECEMBER 2016
 - APPROXIMATE SOIL BORING LOCATION FOR PILOT TEST - DECEMBER 2016
 - SOIL BORING LOCATION
 - ASPHALT PAVED ROAD



REV	DESCRIPTION / ISSUE	DATE	APPROVED
		150 Royall Street Canton MA. 02021	
DESIGNED BY: <i>AW/AS</i>			
DRAWN BY: <i>GJ</i>			
CHECKED BY: <i>PF/VT</i>			
APPROVED BY: <i>AW</i>		NRG ENERGY, INC. MONTVILLE POWER LLC UNCASVILLE, CONNECTICUT	
DATE: <i>1/27/17</i>		GROUNDWATER INJECTION PILOT TEST AREA SITE PLAN MONTVILLE GENERATING STATION MONTVILLE, CONNECTICUT	
SCALE: <i>AS SHOWN</i>		DRAWING NO. <i>631207126-B2</i>	
SHEET NO. <i>--</i>			

Attachment 1

Laboratory Analytical Reports For Groundwater with Data Validation Worksheets

Data Usability Worksheet

Project Name : NRG Montville

Job Number : 631207126

Prepared By: Cathy Joe Mainville

Date : 2/8/2017

Validated By: Kim Napier

Date : 2/8/2017

Matrix: Groundwater

Analyte Group :
Select Metals
Sulfate
Nitrogen, Nitrate + Nitrite
Orthophosphate
Nitrogen Nitrite
Total Organic Carbon
Sulfide

Analytical Method : EPA 200.7
EPA 300/SW846 9056A
EPA 353.2
EPA 365.3
SM 21 4500 NO2 B
SM21 5310 B
SM4500S2-F-11

Completed RCP Certification Form included: Yes

Laboratory ID No. : MC49399

Chain of Custody Included In Data Package ? Yes

Is It Complete ? Yes

Sample Collection Date	Analysis	Allowable Holding Time for	Allowable Holding Time	Analysis Date
1/16/2017, 1/17/2017	SW846 6010C - Metals		180 Days (Mercury 28 Days)	1/19/2017
1/17/2017	EPA 200.7		180 Days (Mercury 28 Days)	1/21/2017, 1/28/2017
1/17/2017	EPA 300/SW846 9056A - Sulfate		28 Days	1/26/2017
1/17/2017	EPA 353.2 - Nitrogen, Nitrate + Nitrite		28 Days	1/24/2017
1/17/2017	EPA 365.3 - Orthophosphate		48 Hours/ Client to filter sample at collection	1/18/2017
1/17/2017	SM 21 4500 NO2 B - Nitrogen Nitrite		48 hours	1/18/2017
1/17/2017	SM21 5310 B - Total Organic Carbon		28 Days	1/20/2017
1/17/2017	SM4500S2-F-11 - Sulfide		7 Days	1/19/2017

Sample temperature within QC limits: Yes, 5.4 and 4.6 °C

Surrogate Recovery

Are all % recoveries within the allowable range ? NA

If No, List sample ID where range was exceeded: N/A

MS/MSD

Are all MS/MSD sample recoveries within the QC limits ? Yes

If No, list sample ID, date and compound where limit was exceeded: N/A

Laboratory Control Samples

Are all laboratory control sample recoveries within the QC limits ? Yes

If no, list sample ID where range was exceeded:

Equipment Field Blank ID : EQUIPMENT BLANK 1/17/2017
EQUIPMENT BLANK 1/17/2017

Trip Blank ID : N/A
Method Blank: 1/20/2017

Were any compounds identified in the method blank, field blank or trip blank above detection limits ? No

If so, list Sample ID/Compound/Concentration/Units:

Notes:

Batch GN55565

MC49399-13 for Phosphate, Ortho: Filtration performed at the lab prior to analysis. Method requires field filtration within 15 minutes of sampling.

MC49399-15 for Phosphate, Ortho: Filtration performed at the lab prior to analysis. Method requires field filtration within 15 minutes of sampling.

EPA 353.2

RPD for duplicate for Nitrogen, Nitrate+Nitrite for sample MC49399-15 above QC limits; no qualification required since sample results non-detect

Batch MP98248

MP98248-SD1 for Magnesium: Serial dilution indicates possible matrix interference.

No qualification necessary since batch QC performed. Not NRG sample

Batch MP98215

MP98215-SD1 for Zinc: Serial dilution indicates possible matrix interference.

Qualify Zn results for AOC12-MW-301 due to serial dilution %D > 10 and sample results > 50X IDL.

Reviewed By: Kim Napier

Report of Analysis

Client Sample ID: AOC12-MW-301
 Lab Sample ID: MC49399-1
 Matrix: AQ - Ground Water

Date Sampled: 01/16/17
 Date Received: 01/17/17
 Percent Solids: n/a

Project: NRG Montville Lathrop Road, Montville, CT

4.1

4

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic ^a	4.3	3.0	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Beryllium ^a	2.5	1.0	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Copper ^a	<10	10	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Nickel ^a	63.3	10	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Vanadium ^a	<50	50	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Zinc ^a	55.1 J	20	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²

(1) Instrument QC Batch: N:MA41194

(2) Prep QC Batch: N:MP98215

(a) Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit

Technical Report for

CB&I

NRG Montville Lathrop Road, Montville, CT

1009644010 PO#CC

SGS Accutest Job Number: MC49399

Sampling Dates: 01/16/17 - 01/17/17

Report to:

CB&I
150 Royall Street
Canton, MA 02021
andrea.steele@cbi.com

ATTN: Andrea Steele

Total number of pages in report: 77



Test results contained within this data package meet the requirements
of the National Environmental Laboratory Accreditation Program
and/or state specific certification programs as applicable.

H. (Brad) Madadian
H. (Brad) Madadian
Lab Director

Client Service contact: Jeremy Vienneau 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) FL (E87579) NY (11791)
NJ (MA926) PA (6801121) ND (R-188) CO (MA00136) MN (11546AA) NC (653) IL (002337) WI (399080220)
DoD ELAP (L-A-B L2235)

This report shall not be reproduced, except in its entirety, without the written approval of SGS Accutest.
Test results relate only to samples analyzed.

Table of Contents

-1-

Section 1: Sample Summary	4
Section 2: Case Narrative/Conformance Summary	6
Section 3: Summary of Hits	10
Section 4: Sample Results	13
4.1: MC49399-1: AOC12-MW-301	14
4.2: MC49399-2: AOC12-MW-302	15
4.3: MC49399-3: AOC12-MW-306	16
4.4: MC49399-4: AOC12-MW-306-DUP	17
4.5: MC49399-5: AOC12-MW-305	18
4.6: MC49399-6: AOC12-MW-304R	19
4.7: MC49399-7: NRG-MW-11	20
4.8: MC49399-9: NRG-MW-07	21
4.9: MC49399-10: AOC3-SB4-MW2	22
4.10: MC49399-11: AOC3-SB1-MW1	23
4.11: MC49399-12: EQUIPMENT BLANK	24
4.12: MC49399-13: AOC12-MW401	25
4.13: MC49399-13F: AOC12-MW401	27
4.14: MC49399-14: EQUIPMENT BLANK	28
4.15: MC49399-15: AOC12-MW402	29
4.16: MC49399-15F: AOC12-MW402	31
4.17: MC49399-16: AOC12-MW402-DUP	32
4.18: MC49399-16F: AOC12-MW402-DUP	33
Section 5: Misc. Forms	34
5.1: Chain of Custody	35
5.2: RCP Form	38
5.3: RCP Form (SGS Accutest New Jersey)	39
5.4: Sample Tracking Chronicle	40
5.5: QC Evaluation: CT RCP Limits	43
Section 6: General Chemistry - QC Data Summaries	44
6.1: Method Blank and Spike Results Summary	45
6.2: Duplicate Results Summary	46
6.3: Matrix Spike Results Summary	47
Section 7: Misc. Forms (SGS Accutest New Jersey)	48
7.1: Chain of Custody	49
7.2: Sample Tracking Chronicle	53
7.3: QC Evaluation: CT RCP Limits	56
Section 8: Metals Analysis - QC Data (SGS Accutest New Jersey)	57
8.1: Prep QC MP98215: As,Be,Cu,Ni,V,Zn	58
8.2: Prep QC MP98248: As,Fe,Mg,V	68
Section 9: General Chemistry - QC Data (SGS Accutest New Jersey)	74
9.1: Method Blank and Spike Results Summary	75
9.2: Duplicate Results Summary	76

Table of Contents

Sections:

1

2

3

4

5

6

7

8

9

-2-

9.3: Matrix Spike Results Summary 77

Sample Summary

CB&I

Job No: MC49399

NRG Montville Lathrop Road, Montville, CT
Project No: 1009644010 PO#CC

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
MC49399-1	01/16/17	08:20 AM	01/17/17	AQ	Ground Water	AOC12-MW-301
MC49399-2	01/16/17	09:50 AM	01/17/17	AQ	Ground Water	AOC12-MW-302
MC49399-3	01/16/17	11:10 AM	01/17/17	AQ	Ground Water	AOC12-MW-306
MC49399-4	01/16/17	11:15 AM	01/17/17	AQ	Ground Water	AOC12-MW-306-DUP
MC49399-5	01/16/17	14:55 AM	01/17/17	AQ	Ground Water	AOC12-MW-305
MC49399-6	01/16/17	15:50 AM	01/17/17	AQ	Ground Water	AOC12-MW-304R
MC49399-7	01/17/17	08:30 AM	01/17/17	AQ	Ground Water	NRG-MW-11
MC49399-9	01/17/17	11:25 AM	01/17/17	AQ	Ground Water	NRG-MW-07
MC49399-10	01/17/17	12:20 AM	01/17/17	AQ	Ground Water	AOC3-SB4-MW2
MC49399-11	01/17/17	12:45 AM	01/17/17	AQ	Ground Water	AOC3-SB1-MW1
MC49399-12	01/17/17	13:00 AM	01/17/17	AQ	Equipment Blank	EQUIPMENT BLANK
MC49399-13	01/17/17	13:55 AM	01/17/17	AQ	Ground Water	AOC12-MW401
MC49399-13F	01/17/17	13:55 AM	01/17/17	AQ	Groundwater Filtered	AOC12-MW401



Sample Summary
(continued)

CB&I

Job No: MC49399

NRG Montville Lathrop Road, Montville, CT
Project No: 1009644010 PO#CC

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
MC49399-14	01/17/17	14:00 AM	01/17/17	AQ	Water	EQUIPMENT BLANK
MC49399-15	01/17/17	00:00 AM	01/17/17	AQ	Ground Water	AOC12-MW402
MC49399-15F	01/17/17	00:00 AM	01/17/17	AQ	Groundwater Filtered	AOC12-MW402
MC49399-16	01/17/17	00:00 AM	01/17/17	AQ	Ground Water	AOC12-MW402-DUP
MC49399-16F	01/17/17	00:00 AM	01/17/17	AQ	Groundwater Filtered	AOC12-MW402-DUP

SAMPLE DELIVERY GROUP CASE NARRATIVE

2

Client: CB&I

Job No MC49399

Site: NRG Montville Lathrop Road, Montville, CT

Report Date 1/30/2017 6:47:21 PM

15 Sample(s) were collected on between 01/16/2017 and 01/17/2017 and were received at SGS Accutest New England on 01/17/2017 properly preserved, at 5.4 Deg. C and intact. These Samples received a job number of MC49399. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Metals By Method EPA 200.7

Matrix: AQ

Batch ID: N:MP98248

- Analysis performed at SGS Accutest, Dayton, NJ.

Metals By Method SW846 6010C

Matrix: AQ

Batch ID: N:MP98215

- Analysis performed at SGS Accutest, Dayton, NJ.

Wet Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ

Batch ID: N:GP2883

- Sulfate: Analysis performed at SGS Accutest, Dayton, NJ.

Wet Chemistry By Method EPA 353.2

Matrix: AQ

Batch ID: R39473

- MC49399-15 for Nitrogen, Nitrate: Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

Matrix: AQ

Batch ID: R39474

- MC49399-13 for Nitrogen, Nitrate: Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

Wet Chemistry By Method EPA 353.2/LACHAT

Matrix: AQ

Batch ID: N:GP2843

- Nitrogen, Nitrate + Nitrite: Analysis performed at SGS Accutest, Dayton, NJ.

Wet Chemistry By Method EPA 365.3

Matrix: AQ

Batch ID: GN55565

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC49399-13DUP, MC49399-13MS were used as the QC samples for Phosphate, Ortho.
- MC49399-13 for Phosphate, Ortho: Filtration performed at the lab prior to analysis. Method requires field filtration within 15 minutes of sampling.
- MC49399-15 for Phosphate, Ortho: Filtration performed at the lab prior to analysis. Method requires field filtration within 15 minutes of sampling.

Monday, January 30, 2017

Page 1 of 2

Wet Chemistry By Method SM 21 4500 NO2 B**Matrix:** AQ**Batch ID:** GP21191

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Wet Chemistry By Method SM4500S2- F-11**Matrix:** AQ**Batch ID:** N:GN58251

- Sulfide: Analysis performed at SGS Accutest, Dayton, NJ.

Wet Chemistry By Method SM5310 B-11**Matrix:** AQ**Batch ID:** N:GP2785

- Total Organic Carbon: Analysis performed at SGS Accutest, Dayton, NJ.

SGS Accutest New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Laboratory Director for SGS Accutest New England or assignee as verified by the signature on the cover page has authorized the release of this report(MC49399).

Monday, January 30, 2017

Page 2 of 2

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: SGS Accutest New England

Job No MC49399

Site: FDG: NRG Montville Lathrop Road, Montville, CT

Report Date 1/30/2017 2:32:17 PM

On 01/18/2017, 15 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS Accutest at a maximum corrected temperature of 2.4 C. Samples were intact and chemically preserved, unless noted below. A SGS Accutest Job Number of MC49399 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Metals By Method EPA 200.7

Matrix: AQ

Batch ID: MP98248

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC35777-1SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Arsenic, Iron, Vanadium are outside control limits for sample MP98248-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- MC49399-13F for Magnesium: Result confirmed with the un-digested sample.
- MP98248-SD1 for Magnesium: Serial dilution indicates possible matrix interference.

Metals By Method SW846 6010C

Matrix: AQ

Batch ID: MP98215

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC49399-1MS, MC49399-1MSD, MC49399-1SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Arsenic, Beryllium, Copper, Vanadium, Zinc are outside control limits for sample MP98215-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- MP98215-SD1 for Zinc: Serial dilution indicates possible matrix interference.

Wet Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ

Batch ID: GP2883

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Wet Chemistry By Method EPA 353.2/LACHAT

Matrix: AQ

Batch ID: GP2843

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC49399-15MS, MC49399-15DUP were used as the QC samples for Nitrogen, Nitrate + Nitrite.
- RPD(s) for Duplicate for Nitrogen, Nitrate + Nitrite are outside control limits for sample GP2843-D1. RPD acceptable due to low duplicate and sample concentrations.

Wet Chemistry By Method SM4500S2- F-11**Matrix:** AQ**Batch ID:** GN58251

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC49399-13DUP, MC49399-15MS were used as the QC samples for Sulfide.

Wet Chemistry By Method SM5310 B-11**Matrix:** AQ**Batch ID:** GP2785

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

SGS Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS Accutest is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS Accutest indicated via signature on the report cover

Summary of Hits

Job Number: MC49399
Account: CB&I
Project: NRG Montville Lathrop Road, Montville, CT
Collected: 01/16/17 thru 01/17/17



Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC49399-1 AOC12-MW-301						
Arsenic ^a		4.3	3.0		ug/l	SW846 6010C
Beryllium ^a		2.5	1.0		ug/l	SW846 6010C
Nickel ^a		63.3	10		ug/l	SW846 6010C
Zinc ^a		55.1	20		ug/l	SW846 6010C
MC49399-2 AOC12-MW-302						
Arsenic ^a		6.1	3.0		ug/l	SW846 6010C
Nickel ^a		13.9	10		ug/l	SW846 6010C
Zinc ^a		35.4	20		ug/l	SW846 6010C
MC49399-3 AOC12-MW-306						
Arsenic ^a		160	3.0		ug/l	SW846 6010C
Beryllium ^a		1.1	1.0		ug/l	SW846 6010C
Nickel ^a		29.5	10		ug/l	SW846 6010C
Vanadium ^a		157	50		ug/l	SW846 6010C
Zinc ^a		74.5	20		ug/l	SW846 6010C
MC49399-4 AOC12-MW-306-DUP						
Arsenic ^a		152	3.0		ug/l	SW846 6010C
Beryllium ^a		1.1	1.0		ug/l	SW846 6010C
Nickel ^a		30.3	10		ug/l	SW846 6010C
Vanadium ^a		145	50		ug/l	SW846 6010C
Zinc ^a		76.1	20		ug/l	SW846 6010C
MC49399-5 AOC12-MW-305						
Arsenic ^a		31.5	3.0		ug/l	SW846 6010C
Copper ^a		25.6	10		ug/l	SW846 6010C
Nickel ^a		10.6	10		ug/l	SW846 6010C
Zinc ^a		50.2	20		ug/l	SW846 6010C
MC49399-6 AOC12-MW-304R						
Arsenic ^a		4.4	3.0		ug/l	SW846 6010C
Copper ^a		13.1	10		ug/l	SW846 6010C
Nickel ^a		23.8	10		ug/l	SW846 6010C
Zinc ^a		38.6	20		ug/l	SW846 6010C

Summary of Hits

Job Number: MC49399
Account: CB&I
Project: NRG Montville Lathrop Road, Montville, CT
Collected: 01/16/17 thru 01/17/17

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

MC49399-7 NRG-MW-11

Nickel ^a	26.9	10		ug/l	SW846 6010C
---------------------	------	----	--	------	-------------

MC49399-9 NRG-MW-07

Arsenic ^a	34.2	3.0		ug/l	SW846 6010C
Zinc ^a	84.4	20		ug/l	SW846 6010C

MC49399-10 AOC3-SB4-MW2

Arsenic ^a	5.1	3.0		ug/l	SW846 6010C
Nickel ^a	22.1	10		ug/l	SW846 6010C
Zinc ^a	69.5	20		ug/l	SW846 6010C

MC49399-11 AOC3-SB1-MW1

Arsenic ^a	11.7	3.0		ug/l	SW846 6010C
Beryllium ^a	2.2	1.0		ug/l	SW846 6010C
Nickel ^a	66.0	10		ug/l	SW846 6010C
Zinc ^a	101	20		ug/l	SW846 6010C

MC49399-12 EQUIPMENT BLANK

No hits reported in this sample.

MC49399-13 AOC12-MW401

Arsenic ^a	41.0	3.0		ug/l	EPA 200.7
Iron ^a	20700	100		ug/l	EPA 200.7
Vanadium ^a	284	50		ug/l	EPA 200.7
Sulfate ^a	85.4	10		mg/l	EPA 300/SW846 9056A

MC49399-13F AOC12-MW401

Arsenic ^a	27.3	3.0		ug/l	EPA 200.7
Iron ^a	20800	100		ug/l	EPA 200.7
Magnesium ^b	5640	5000		ug/l	EPA 200.7

MC49399-14 EQUIPMENT BLANK

No hits reported in this sample.

Summary of Hits

Page 3 of 3

Job Number: MC49399
Account: CB&I
Project: NRG Montville Lathrop Road, Montville, CT
Collected: 01/16/17 thru 01/17/17

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
--------------------------	------------------	-----------------	----	-----	-------	--------

MC49399-15 AOC12-MW402

Arsenic ^a		35.2	3.0		ug/l	EPA 200.7
Iron ^a		1200	100		ug/l	EPA 200.7
Sulfate ^a		34.2	10		mg/l	EPA 300/SW846 9056A

MC49399-15F AOC12-MW402

Arsenic ^a		27.6	3.0		ug/l	EPA 200.7
Iron ^a		505	100		ug/l	EPA 200.7

MC49399-16 AOC12-MW402-DUP

Arsenic ^a		34.2	3.0		ug/l	EPA 200.7
----------------------	--	------	-----	--	------	-----------

MC49399-16F AOC12-MW402-DUP

Arsenic ^a		26.3	3.0		ug/l	EPA 200.7
----------------------	--	------	-----	--	------	-----------

(a) Analysis performed at SGS Accutest, Dayton, NJ.

(b) Result confirmed with the un-digested sample. Analysis performed at SGS Accutest, Dayton, NJ.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	AOC12-MW-301	Date Sampled:	01/16/17
Lab Sample ID:	MC49399-1	Date Received:	01/17/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic ^a	4.3	3.0	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Beryllium ^a	2.5	1.0	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Copper ^a	< 10	10	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Nickel ^a	63.3	10	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Vanadium ^a	< 50	50	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Zinc ^a	55.1	20	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²

- (1) Instrument QC Batch: N:MA41194
(2) Prep QC Batch: N:MP98215

(a) Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	AOC12-MW-302	Date Sampled:	01/16/17
Lab Sample ID:	MC49399-2	Date Received:	01/17/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic ^a	6.1	3.0	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Beryllium ^a	< 1.0	1.0	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Copper ^a	< 10	10	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Nickel ^a	13.9	10	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Vanadium ^a	< 50	50	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Zinc ^a	35.4	20	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²

- (1) Instrument QC Batch: N:MA41194
(2) Prep QC Batch: N:MP98215
- (a) Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	AOC12-MW-306	Date Sampled:	01/16/17
Lab Sample ID:	MC49399-3	Date Received:	01/17/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic ^a	160	3.0	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Beryllium ^a	1.1	1.0	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Copper ^a	< 10	10	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Nickel ^a	29.5	10	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Vanadium ^a	157	50	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Zinc ^a	74.5	20	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²

(1) Instrument QC Batch: N:MA41194

(2) Prep QC Batch: N:MP98215

(a) Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit

4.3
4

Report of Analysis

Client Sample ID:	AOC12-MW-306-DUP	Date Sampled:	01/16/17
Lab Sample ID:	MC49399-4	Date Received:	01/17/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic ^a	152	3.0	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Beryllium ^a	1.1	1.0	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Copper ^a	< 10	10	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Nickel ^a	30.3	10	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Vanadium ^a	145	50	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Zinc ^a	76.1	20	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²

(1) Instrument QC Batch: N:MA41194

(2) Prep QC Batch: N:MP98215

(a) Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	AOC12-MW-305	Date Sampled:	01/16/17
Lab Sample ID:	MC49399-5	Date Received:	01/17/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic ^a	31.5	3.0	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Beryllium ^a	< 1.0	1.0	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Copper ^a	25.6	10	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Nickel ^a	10.6	10	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Vanadium ^a	< 50	50	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Zinc ^a	50.2	20	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²

- (1) Instrument QC Batch: N:MA41194
(2) Prep QC Batch: N:MP98215
- (a) Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	AOC12-MW-304R	Date Sampled:	01/16/17
Lab Sample ID:	MC49399-6	Date Received:	01/17/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic ^a	4.4	3.0	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Beryllium ^a	< 1.0	1.0	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Copper ^a	13.1	10	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Nickel ^a	23.8	10	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Vanadium ^a	< 50	50	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Zinc ^a	38.6	20	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²

(1) Instrument QC Batch: N:MA41194

(2) Prep QC Batch: N:MP98215

(a) Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NRG-MW-11	Date Sampled:	01/17/17
Lab Sample ID:	MC49399-7	Date Received:	01/17/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic ^a	< 3.0	3.0	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Beryllium ^a	< 1.0	1.0	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Copper ^a	< 10	10	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Nickel ^a	26.9	10	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Vanadium ^a	< 50	50	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Zinc ^a	< 20	20	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²

(1) Instrument QC Batch: N:MA41194

(2) Prep QC Batch: N:MP98215

(a) Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NRG-MW-07	Date Sampled:	01/17/17
Lab Sample ID:	MC49399-9	Date Received:	01/17/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic ^a	34.2	3.0	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Beryllium ^a	< 1.0	1.0	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Copper ^a	< 10	10	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Nickel ^a	< 10	10	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Vanadium ^a	< 50	50	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Zinc ^a	84.4	20	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²

(1) Instrument QC Batch: N:MA41194

(2) Prep QC Batch: N:MP98215

(a) Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	AOC3-SB4-MW2	Date Sampled:	01/17/17
Lab Sample ID:	MC49399-10	Date Received:	01/17/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic ^a	5.1	3.0	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Beryllium ^a	< 1.0	1.0	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Copper ^a	< 10	10	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Nickel ^a	22.1	10	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Vanadium ^a	< 50	50	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Zinc ^a	69.5	20	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²

(1) Instrument QC Batch: N:MA41194

(2) Prep QC Batch: N:MP98215

(a) Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit

Report of Analysis

Client Sample ID: AOC3-SB1-MW1	Date Sampled: 01/17/17
Lab Sample ID: MC49399-11	Date Received: 01/17/17
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: NRG Montville Lathrop Road, Montville, CT	

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic ^a	11.7	3.0	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Beryllium ^a	2.2	1.0	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Copper ^a	< 10	10	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Nickel ^a	66.0	10	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Vanadium ^a	< 50	50	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Zinc ^a	101	20	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²

(1) Instrument QC Batch: N:MA41194

(2) Prep QC Batch: N:MP98215

(a) Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	EQUIPMENT BLANK	Date Sampled:	01/17/17
Lab Sample ID:	MC49399-12	Date Received:	01/17/17
Matrix:	AQ - Equipment Blank	Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By		Method	Prep Method
Arsenic ^a	< 3.0	3.0	ug/l	1	01/19/17	01/19/17	ANJ	SW846 6010C ¹	SW846 3010A ²
Beryllium ^a	< 1.0	1.0	ug/l	1	01/19/17	01/19/17	ANJ	SW846 6010C ¹	SW846 3010A ²
Copper ^a	< 10	10	ug/l	1	01/19/17	01/19/17	ANJ	SW846 6010C ¹	SW846 3010A ²
Nickel ^a	< 10	10	ug/l	1	01/19/17	01/19/17	ANJ	SW846 6010C ¹	SW846 3010A ²
Vanadium ^a	< 50	50	ug/l	1	01/19/17	01/19/17	ANJ	SW846 6010C ¹	SW846 3010A ²
Zinc ^a	< 20	20	ug/l	1	01/19/17	01/19/17	ANJ	SW846 6010C ¹	SW846 3010A ²

- (1) Instrument QC Batch: N:MA41194
(2) Prep QC Batch: N:MP98215

(a) Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	AOC12-MW401	Date Sampled:	01/17/17
Lab Sample ID:	MC49399-13	Date Received:	01/17/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic ^a	41.0	3.0	ug/l	1	01/20/17	01/21/17 ANJ	EPA 200.7 ¹	EPA 200.7 ²
Iron ^a	20700	100	ug/l	1	01/20/17	01/21/17 ANJ	EPA 200.7 ¹	EPA 200.7 ²
Magnesium ^a	< 5000	5000	ug/l	1	01/20/17	01/21/17 ANJ	EPA 200.7 ¹	EPA 200.7 ²
Vanadium ^a	284	50	ug/l	1	01/20/17	01/21/17 ANJ	EPA 200.7 ¹	EPA 200.7 ²

- (1) Instrument QC Batch: N:MA41211
(2) Prep QC Batch: N:MP98248
- (a) Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit

Report of Analysis

Client Sample ID: AOC12-MW401	Date Sampled: 01/17/17
Lab Sample ID: MC49399-13	Date Received: 01/17/17
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: NRG Montville Lathrop Road, Montville, CT	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate ^a	< 0.11	0.11	mg/l	1	01/24/17 15:03	ANJ	EPA 353.2
Nitrogen, Nitrate + Nitrite ^b	< 0.10	0.10	mg/l	1	01/24/17 15:03	ANJ	EPA 353.2/LACHAT
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	01/18/17 09:55	EAL	SM 21 4500 NO2 B
Phosphate, Ortho ^c	< 0.10	0.10	mg/l	1	01/18/17 11:15	EAL	EPA 365.3
Sulfate ^b	85.4	10	mg/l	1	01/26/17 01:43	ANJ	EPA 300/SW846 9056A
Sulfide ^b	< 2.0	2.0	mg/l	1	01/19/17 16:26	ANJ	SM4500S2- F-11
Total Organic Carbon ^b	< 1.0	1.0	mg/l	1	01/20/17 16:12	ANJ	SM5310 B-11

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

(b) Analysis performed at SGS Accutest, Dayton, NJ.

(c) Filtration performed at the lab prior to analysis. Method requires field filtration within 15 minutes of sampling.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	AOC12-MW401	Date Sampled:	01/17/17
Lab Sample ID:	MC49399-13F	Date Received:	01/17/17
Matrix:	AQ - Groundwater Filtered	Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method	
Arsenic ^a	27.3	3.0	ug/l	1	01/20/17	01/21/17	ANJ	EPA 200.7 ¹	EPA 200.7 ²
Iron ^a	20800	100	ug/l	1	01/20/17	01/21/17	ANJ	EPA 200.7 ¹	EPA 200.7 ²
Magnesium ^b	5640	5000	ug/l	1	01/20/17	01/21/17	ANJ	EPA 200.7 ¹	EPA 200.7 ²
Vanadium ^a	< 50	50	ug/l	1	01/20/17	01/21/17	ANJ	EPA 200.7 ¹	EPA 200.7 ²

(1) Instrument QC Batch: N:MA41211

(2) Prep QC Batch: N:MP98248

(a) Analysis performed at SGS Accutest, Dayton, NJ.

(b) Result confirmed with the un-digested sample. Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit

4.13
4

Report of Analysis

Client Sample ID:	EQUIPMENT BLANK	Date Sampled:	01/17/17
Lab Sample ID:	MC49399-14	Date Received:	01/17/17
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By		Method	Prep Method
Arsenic ^a	< 3.0	3.0	ug/l	1	01/20/17	01/21/17	ANJ	EPA 200.7 ¹	EPA 200.7 ²
Iron ^a	< 100	100	ug/l	1	01/20/17	01/21/17	ANJ	EPA 200.7 ¹	EPA 200.7 ²
Magnesium ^a	< 5000	5000	ug/l	1	01/20/17	01/21/17	ANJ	EPA 200.7 ¹	EPA 200.7 ²
Vanadium ^a	< 50	50	ug/l	1	01/20/17	01/21/17	ANJ	EPA 200.7 ¹	EPA 200.7 ²

- (1) Instrument QC Batch: N:MA41211
(2) Prep QC Batch: N:MP98248
- (a) Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit

4.14
4

Report of Analysis

Client Sample ID:	AOC12-MW402	Date Sampled:	01/17/17
Lab Sample ID:	MC49399-15	Date Received:	01/17/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method	
Arsenic ^a	35.2	3.0	ug/l	1	01/20/17	01/21/17	ANJ	EPA 200.7 ¹	EPA 200.7 ³
Iron ^a	1200	100	ug/l	1	01/20/17	01/28/17	ANJ	EPA 200.7 ²	EPA 200.7 ³
Magnesium ^a	< 5000	5000	ug/l	1	01/20/17	01/28/17	ANJ	EPA 200.7 ²	EPA 200.7 ³
Vanadium ^a	< 50	50	ug/l	1	01/20/17	01/21/17	ANJ	EPA 200.7 ¹	EPA 200.7 ³

- (1) Instrument QC Batch: N:MA41211
- (2) Instrument QC Batch: N:MA41249
- (3) Prep QC Batch: N:MP98248

(a) Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	AOC12-MW402	Date Sampled:	01/17/17
Lab Sample ID:	MC49399-15	Date Received:	01/17/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate ^a	< 0.11	0.11	mg/l	1	01/24/17 15:07	ANJ	EPA 353.2
Nitrogen, Nitrate + Nitrite ^b	< 0.10	0.10	mg/l	1	01/24/17 15:07	ANJ	EPA 353.2/LACHAT
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	01/18/17 09:55	EAL	SM 21 4500 NO2 B
Phosphate, Ortho ^c	< 0.10	0.10	mg/l	1	01/18/17 11:15	EAL	EPA 365.3
Sulfate ^b	34.2	10	mg/l	1	01/26/17 02:55	ANJ	EPA 300/SW846 9056A
Sulfide ^b	< 2.0	2.0	mg/l	1	01/19/17 16:26	ANJ	SM4500S2- F-11
Total Organic Carbon ^b	< 1.0	1.0	mg/l	1	01/20/17 16:23	ANJ	SM5310 B-11

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

(b) Analysis performed at SGS Accutest, Dayton, NJ.

(c) Filtration performed at the lab prior to analysis. Method requires field filtration within 15 minutes of sampling.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	AOC12-MW402	Date Sampled:	01/17/17
Lab Sample ID:	MC49399-15F	Date Received:	01/17/17
Matrix:	AQ - Groundwater Filtered	Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic ^a	27.6	3.0	ug/l	1	01/20/17	01/21/17 ANJ	EPA 200.7 ¹	EPA 200.7 ²
Iron ^a	505	100	ug/l	1	01/20/17	01/21/17 ANJ	EPA 200.7 ¹	EPA 200.7 ²
Magnesium ^a	< 5000	5000	ug/l	1	01/20/17	01/21/17 ANJ	EPA 200.7 ¹	EPA 200.7 ²
Vanadium ^a	< 50	50	ug/l	1	01/20/17	01/21/17 ANJ	EPA 200.7 ¹	EPA 200.7 ²

- (1) Instrument QC Batch: N:MA41211
(2) Prep QC Batch: N:MP98248
- (a) Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	AOC12-MW402-DUP	Date Sampled:	01/17/17
Lab Sample ID:	MC49399-16	Date Received:	01/17/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic ^a	34.2	3.0	ug/l	1	01/20/17	01/21/17 ANJ	EPA 200.7 ¹	EPA 200.7 ²

(1) Instrument QC Batch: N:MA41211
(2) Prep QC Batch: N:MP98248

(a) Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit

4.17
4

Report of Analysis

Client Sample ID:	AOC12-MW402-DUP	Date Sampled:	01/17/17
Lab Sample ID:	MC49399-16F	Date Received:	01/17/17
Matrix:	AQ - Groundwater Filtered	Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic ^a	26.3	3.0	ug/l	1	01/20/17	01/21/17 ANJ	EPA 200.7 ¹	EPA 200.7 ²

(1) Instrument QC Batch: N:MA41211
(2) Prep QC Batch: N:MP98248

(a) Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit

4.18
4

Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- RCP Form
- RCP Form (SGS Accutest New Jersey)
- Sample Tracking Chronicle
- QC Evaluation: CT RCP Limits



ACCUTEST

CHAIN OF CUSTODY

SGS Accutest of New England
59 D'Angelo Drive/495 Technology Center West, Building One, Marlborough, MA 01752
TEL: 508-481-6200 FAX: 508-481-7753
www.accutest.com

PAGE 1 OF 2

Client / Reporting Information				Project Information				Requested Analysis (see TEST CODE sheet)												Matrix Codes	
Company Name CB&I Environmental				Project Name NRG Montville				Total Metals (As, Be, Cu, Ni, V, Zn) by EPA Method 6010C Total Metals (As, Be, Cu, Ni, V, Zn) low level by EPA Method 6020A												DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipes FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank	
Street Address 150 Royall Street				Street 74 Lathrop Road																	
City State Zip Canton, MA 02021				City Uncasville, CT				Billing Information (If different from Report to)													
Project Contact Andrew.walker@cbi.com				Project# 631207126				Company Name													
Phone # 617-589-6143				Client PO# P-card				Street Address													
Fax # 617-589-6143				City State Zip				City State Zip													
Sampler(s) Name(s) Austin Magnant				Phone # 774-551-6197				Attention: PG#													
Project Manager Andy Walker																					
Collection				Number of preserved Bottles																	
Field ID / Point of Collection				MEQ/HDl Vial #																	
Date				Time																	
Sampled by				Matrix																	
# of bottles				PC																	
NaOH				HNO3																	
H2SO4				HClO4																	
HNO2				H2O2																	
DI Water				ENCORE																	
MICH				Bioscience																	
LAB USE ONLY																					
1 AOC12-MW-301				01-16-17 0830 AM GW												1					
2 AOC12-MW-302				01-16-17 0950 AM GW												1					
3 AOC12-MW-306				01-16-17 1110 AM GW												1					
4 AOC12-MW-306-DUP				01-16-17 1115 AM GW												1					
5 AOC12-MW-305				01-16-17 1455 AM GW												1					
6 AOC12-MW-304R				01-16-17 1550 AM GW												1					
7 NRG-MW-11				01-17-17 0830 AM GW												1					
8 NRG-MW-05				01-17-17 1000 AM GW												1					
9 NRG-MW-07				01-17-17 1125 AM GW												1					
10 AOC13-SB4-MW2				01-17-17 1230 AM GW												1					
11 AOC13-SB1-MW1				01-17-17 1245 AM GW												1					
12 Equipment Blank				01-17-17 1300 AM GW												1					
Turnaround Time (Business days)				Approved By (SGS Accutest PM) / Date:																	
<input checked="" type="checkbox"/> Std. 10 Business Days				<input type="checkbox"/> Commercial "A" (Level 1)												<input type="checkbox"/> NYASP Category A					
<input type="checkbox"/> Std. 5 Business Days (By Contract only)				<input type="checkbox"/> Commercial "B" (Level 2)												<input type="checkbox"/> NYASP Category B					
<input type="checkbox"/> 5 Day RUSH				<input type="checkbox"/> FULLT1 (Level 3+)												<input type="checkbox"/> State Forms					
<input type="checkbox"/> 3 Day EMERGENCY				<input checked="" type="checkbox"/> CT RCP												<input checked="" type="checkbox"/> EDD Format: GIS Key					
<input type="checkbox"/> 2 Day EMERGENCY				<input type="checkbox"/> MA MCP												<input type="checkbox"/> Other					
<input type="checkbox"/> 1 Day EMERGENCY				Commercial "A" = Results Only												Commercial "B" = Results + QC Summary					
Emergency & Rush T/A data available VIA Lablink				Comments / Special Instructions																	
				*NRG-MW3 detection limits must meet GA GWPC.																	
				*NRG-MW5 report results to MDL on separate report and																	
				detection limits must meet GA GWPC and CT WQC.																	
				QA/QC Reporting: CTDEEP RCP and Site-Specific																	
				QAPP.																	
				Please email GIS Key formatted EDD & PDF to																	
				catherine.joe@cbl.com.																	
Relinquished by Sampler:				Received By:																	
Date Time:				Date Time:																	
1				1																	
Relinquished by Sampler:				Received By:																	
Date Time:				Date Time:																	
3				3																	
Relinquished by Sampler:				Received By:																	
Date Time:				Date Time:																	
5				5																	
Custody Seal #				Intact Preserved where applicable																	
				Not intact																	
				On Ice Cooler Temp.																	
				25.4-46.0																	

MC49399: Chain of Custody

Page 1 of 3



		50 D'Asgade Drive/495 Technology Center West, Building One, Marlborough, MA 01752 TEL: 508-481-6200 FAX: 508-481-7753 www.accutest.com		PED-EX Tracking # _____ Bottle Order Card # _____	
Client / Reporting Information Company Name: CB&I Environmental Street Address: 150 Royall Street City: Canton, MA State: 02021 Project Contact: Andrew.walker@cbi.com Phone #: 617-589-6143 Fax #: _____ Sample(s) Name(s): Austin Magnant Phone #: 774-551-6197		Project Information Project Name: NRG Montville Street: 74 Lathrop Road City: Uncasville, CT Project#: 631207126 Client PO#: p-card Project Manager: Andy Walker		Requested Analysis (see TEST CODE sheet) Total Metals (As, Fe, Mg, V) (EPA 200.7) Dissolved Metals (As, Fe, Mg, V) (EPA 200.7) Total Arsenic by EPA Method 200.7 Dissolved As by EPA Method 200.7 Sulfate (Method ASTM516-90.02) Orthophosphate (Method 365.3) Nitrate (EPA 353.2) Sulfide (Method SM4500S2-F-11) Nitrite (SM 21 4500 NO2 B) Total Organic Carbon (SM21 5310B)	
Billing Information (If different from Report to) Company Name: _____ Street Address: _____ City: _____ State: _____ Zip: _____ Attention: _____ PO#: _____		Matrix Codes DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment CL - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Waste FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank		LAB USE ONLY	
Field ID / Point of Collection Field ID: AOC 12-MW 401 Field ID: Emulsion Blank Field ID: AOC 12-MW 402 Field ID: AOC 12-MW 402-Dup		Collection MECH/VDI Vial #: _____ Date: _____ Time: _____ Sampled by: _____ Matrix: _____ # of bottles: _____ Number of preserved bottles: _____		Data Deliverable Information <input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> NYASP Category A <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> NYASP Category B <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> State Forms <input checked="" type="checkbox"/> CT RCP <input checked="" type="checkbox"/> EDD Format: GIS Key <input type="checkbox"/> MA MCP <input type="checkbox"/> Other: _____ Commercial "A" = Results Only Commercial "B" = Results + QC Summary	
Turnaround Time (Business days) <input checked="" type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY Emergency & Rush T/A data available via Lablink		Approved By (SGS Accutest PM): / Date: _____ _____ _____		Comments / Special Instructions Dissolved metals and orthophosphate samples have been field filtered. QA/QC Reporting: CTDEP RCP and Site-Specific QAPP. Please email GIS Key formatted EDD & PDF to catherine.joe@cbi.com.	
Sample Custody must be documented below each time samples change possession, including courier delivery.					
Relinquished by Sample: Date Time: 01-17-17 1635		Received By: Way		Relinquished By: 2	
Relinquished by Sampler: Date Time: _____		Received By: 3		Relinquished By: 4	
Relinquished by: Date Time: _____		Received By: 5		Custody Seal # <input type="checkbox"/> Intact <input type="checkbox"/> Preserved where applicable <input type="checkbox"/> On Ice <input type="checkbox"/> Cooler Temp.	

MC49399: Chain of Custody

Page 2 of 3

SGS Accutest NE Sample Receipt Summary

Job Number: MC49399

Client: CB&I ENVIRONMENTAL

Project: NRG MONTVILLE

Date / Time Received: 1/17/2017 4:45:00 PM

Delivery Method: CLEINT

Airbill #'s:

Cooler Temps (Initial/Adjusted): #1: (5.4/5.4); #2: (4.6/4.6);

Cooler Security

Y or N

- | | | | | | |
|---------------------------|-------------------------------------|--------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Cooler Temperature

Y or N

- | | | |
|----------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Thermometer ID: | IRGUN1; | |
| 3. Cooler media: | Ice (Bag) | |
| 4. No. Coolers: | 2 | |

Quality Control Preservation

Y or N

N/A

- | | | | |
|---------------------------------|-------------------------------------|-------------------------------------|--------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Comments

Sample Integrity - Documentation

Y or N

- | | | |
|--|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Condition

Y or N

- | | | |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample: | Intact | |

Sample Integrity - Instructions

Y or N N/A

- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

MC49399: Chain of Custody

Page 3 of 3

Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

Laboratory Name: Accutest New England

Client: CB&I

Project Location: NRG Montville Lathrop Road, Montville, CT

Project Number: 1009644010 PO#

Sampling Date(s): 1/16/2017

Laboratory Sample ID(s): MC49399-1, MC49399-2, MC49399-3, MC49399-4, MC49399-5, MC49399-6, MC49399-7, MC49399-9, MC49399-10, MC49399-11, MC49399-12, MC49399-13, MC49399-14, MC49399-15, MC49399-16, MC49399-13F, MC49399-15F, MC49399-16F

Methods: Refer to case narrative.

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents)?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
1A	Where all the method specified preservation and holding time requirements met?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
1B	VPH and EPH methods only: Was the VPH or EPH method conducted without significant modifications (See section 11.3 of respective methods)	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
3	Were samples received at an appropriate temperature (<6° C)?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
5	a) Were reporting limits specified or referenced on the chain-of-custody?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
	b) Were these reporting limits met?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized

Signature: 

Position: Lab Director

Printed Name: H. (Brad) Madadian
Accutest New England

Date: 1/30/2017

Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

Laboratory Name: Accutest New England Client: SGS Accutest New England

Project Location: FDG: NRG Montville Lathrop Road, Montville, CT Project Number: FDG18607

Sampling Date(s): 1/16/2017

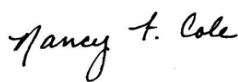
Laboratory Sample ID(s): MC49399-3, MC49399-4, MC49399-5, MC49399-6, MC49399-7, MC49399-1, MC49399-2, MC49399-9, MC49399-10, MC49399-11, MC49399-12, MC49399-13, MC49399-14, MC49399-15, MC49399-16, MC49399-13F, MC49399-15F, MC49399-16F

Methods: EPA 200.7, EPA 300/SW846 9056A, EPA 353.2/LACHAT, SM4500S2- F-11, S1

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents)?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
1A	Where all the method specified preservation and holding time requirements met?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
1B	VPH and EPH methods only: Was the VPH or EPH method conducted without significant modifications (See section 11.3 of respective methods)	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
3	Were samples received at an appropriate temperature (<6° C)?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
5	a) Were reporting limits specified or referenced on the chain-of-custody?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
	b) Were these reporting limits met?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature:  Position: Lab Director

Printed Name: Nancy Cole Date: 1/31/2017

Mid-Atlantic Laboratory

Internal Sample Tracking Chronicle

CB&I

Job No: MC49399

NRG Montville Lathrop Road, Montville, CT
 Project No: 1009644010 PO#CC

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC49399-1 Collected: 16-JAN-17 08:20 By: AM Received: 17-JAN-17 By: BA AOC12-MW-301						
MC49399-1	SW846 6010C	19-JAN-17 18:50	ANJ	19-JAN-17	ANJ	AS,BE,CU,NI,V,ZN
MC49399-2 Collected: 16-JAN-17 09:50 By: AM Received: 17-JAN-17 By: BA AOC12-MW-302						
MC49399-2	SW846 6010C	19-JAN-17 18:56	ANJ	19-JAN-17	ANJ	AS,BE,CU,NI,V,ZN
MC49399-3 Collected: 16-JAN-17 11:10 By: AM Received: 17-JAN-17 By: BA AOC12-MW-306						
MC49399-3	SW846 6010C	19-JAN-17 18:58	ANJ	19-JAN-17	ANJ	AS,BE,CU,NI,V,ZN
MC49399-4 Collected: 16-JAN-17 11:15 By: AM Received: 17-JAN-17 By: BA AOC12-MW-306-DUP						
MC49399-4	SW846 6010C	19-JAN-17 19:07	ANJ	19-JAN-17	ANJ	AS,BE,CU,NI,V,ZN
MC49399-5 Collected: 16-JAN-17 14:55 By: AM Received: 17-JAN-17 By: BA AOC12-MW-305						
MC49399-5	SW846 6010C	19-JAN-17 19:10	ANJ	19-JAN-17	ANJ	AS,BE,CU,NI,V,ZN
MC49399-6 Collected: 16-JAN-17 15:50 By: AM Received: 17-JAN-17 By: BA AOC12-MW-304R						
MC49399-6	SW846 6010C	19-JAN-17 19:12	ANJ	19-JAN-17	ANJ	AS,BE,CU,NI,V,ZN
MC49399-7 Collected: 17-JAN-17 08:30 By: AM Received: 17-JAN-17 By: BA NRG-MW-11						
MC49399-7	SW846 6010C	19-JAN-17 19:15	ANJ	19-JAN-17	ANJ	AS,BE,CU,NI,V,ZN
MC49399-9 Collected: 17-JAN-17 11:25 By: AM Received: 17-JAN-17 By: BA NRG-MW-07						
MC49399-9	SW846 6010C	19-JAN-17 19:18	ANJ	19-JAN-17	ANJ	AS,BE,CU,NI,V,ZN

Internal Sample Tracking Chronicle

CB&I

Job No: MC49399

NRG Montville Lathrop Road, Montville, CT
Project No: 1009644010 PO#CC

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC49399-10 Collected: 17-JAN-17 12:20 By: AM Received: 17-JAN-17 By: BA AOC3-SB4-MW2						
MC49399-10	SW846 6010C	19-JAN-17 19:21	ANJ	19-JAN-17	ANJ	AS,BE,CU,NI,V,ZN
MC49399-11 Collected: 17-JAN-17 12:45 By: AM Received: 17-JAN-17 By: BA AOC3-SB1-MW1						
MC49399-11	SW846 6010C	19-JAN-17 19:24	ANJ	19-JAN-17	ANJ	AS,BE,CU,NI,V,ZN
MC49399-12 Collected: 17-JAN-17 13:00 By: AM Received: 17-JAN-17 By: BA EQUIPMENT BLANK						
MC49399-12	SW846 6010C	19-JAN-17 19:27	ANJ	19-JAN-17	ANJ	AS,BE,CU,NI,V,ZN
MC49399-13 Collected: 17-JAN-17 13:55 By: AM Received: 17-JAN-17 By: BA AOC12-MW401						
MC49399-13	SM 21 4500 NO2 B	18-JAN-17 09:55	EAL	18-JAN-17	EAL	NO2
MC49399-13	EPA 365.3	18-JAN-17 11:15	EAL			OPO4
MC49399-13	M4500S2- F-11	19-JAN-17 16:26	ANJ			S
MC49399-13	M5310 B-11	20-JAN-17 16:12	ANJ	20-JAN-17	ANJ	TOC
MC49399-13	EPA 200.7	21-JAN-17 14:42	ANJ	20-JAN-17	ANJ	AS,FE,MG,V
MC49399-13	EPA 353.2	24-JAN-17 15:03	ANJ			NO3O
MC49399-13	EPA 353.2/LACHAT	24-JAN-17 15:03	ANJ	24-JAN-17	ANJ	NO32
MC49399-13	EPA 300/SW846 9056A26	26-JAN-17 01:43	ANJ	25-JAN-17		SO4
MC49399-14 Collected: 17-JAN-17 14:00 By: AM Received: 17-JAN-17 By: BA EQUIPMENT BLANK						
MC49399-14	EPA 200.7	21-JAN-17 14:55	ANJ	20-JAN-17	ANJ	AS,FE,MG,V
MC49399-15 Collected: 17-JAN-17 00:00 By: AM Received: 17-JAN-17 By: BA AOC12-MW402						
MC49399-15	SM 21 4500 NO2 B	18-JAN-17 09:55	EAL	18-JAN-17	EAL	NO2
MC49399-15	EPA 365.3	18-JAN-17 11:15	EAL			OPO4
MC49399-15	M4500S2- F-11	19-JAN-17 16:26	ANJ			S
MC49399-15	M5310 B-11	20-JAN-17 16:23	ANJ	20-JAN-17	ANJ	TOC

Internal Sample Tracking Chronicle

CB&I

Job No: MC49399

NRG Montville Lathrop Road, Montville, CT
 Project No: 1009644010 PO#CC

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC49399-15	EPA 200.7	21-JAN-17 14:58	ANJ	20-JAN-17	ANJ	AS,V
MC49399-15	EPA 353.2	24-JAN-17 15:07	ANJ			NO3O
MC49399-15	EPA 353.2/LACHAT	24-JAN-17 15:07	ANJ	24-JAN-17	ANJ	NO32
MC49399-15	EPA 300/SW846 9056A	26-JAN-17 02:55	ANJ	25-JAN-17		SO4
MC49399-15	EPA 200.7	28-JAN-17 00:43	ANJ	20-JAN-17	ANJ	FE,MG
MC49399-16 Collected: 17-JAN-17 00:00 By: AM Received: 17-JAN-17 By: BA AOC12-MW402-DUP						
MC49399-16	EPA 200.7	21-JAN-17 15:01	ANJ	20-JAN-17	ANJ	AS
MC49399-13 Collected: 17-JAN-17 13:55 By: AM Received: 17-JAN-17 By: BA AOC12-MW401						
MC49399-13	EPA 200.7	21-JAN-17 15:04	ANJ	20-JAN-17	ANJ	AS,FE,MG,V
MC49399-15 Collected: 17-JAN-17 00:00 By: AM Received: 17-JAN-17 By: BA AOC12-MW402						
MC49399-15	EPA 200.7	21-JAN-17 15:07	ANJ	20-JAN-17	ANJ	AS,FE,MG,V
MC49399-16 Collected: 17-JAN-17 00:00 By: AM Received: 17-JAN-17 By: BA AOC12-MW402-DUP						
MC49399-16	EPA 200.7	21-JAN-17 15:10	ANJ	20-JAN-17	ANJ	AS

QC Evaluation: CT RCP Limits

Job Number: MC49399
Account: CB&I
Project: NRG Montville Lathrop Road, Montville, CT
Collected: 01/16/17 thru 01/17/17

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
--------------	------	---------	-------------	-------------	--------	-------	--------

No Exceptions found.

* Sample used for QC is not from job MC49399

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: MC49399
Account: FDG - CB&I
Project: NRG Montville Lathrop Road, Montville, CT

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Nitrogen, Nitrite	GP21191/GN55564	0.010	0.0029	mg/l	.020	0.021	105.0	80-120%
Phosphate, Ortho	GN55565	0.10	0.0	mg/l	.2	0.20	100.0	80-120%

Associated Samples:

Batch GN55565: MC49399-13, MC49399-15

Batch GP21191: MC49399-13, MC49399-15

(*) Outside of QC limits

6.1

6

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: MC49399
Account: FDG - CB&I
Project: NRG Montville Lathrop Road, Montville, CT

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Phosphate, Ortho	GN55565	MC49399-13	mg/l	0.034	0.032	6.1	0-20%

Associated Samples:

Batch GN55565: MC49399-13, MC49399-15
(*) Outside of QC limits

6.2

6

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: MC49399
Account: FDG - CB&I
Project: NRG Montville Lathrop Road, Montville, CT

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Phosphate, Ortho	GN55565	MC49399-13	mg/l	0.034	.2	0.24	103.0	75-125%

Associated Samples:

Batch GN55565: MC49399-13, MC49399-15

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

6.3

6

Misc. Forms

Custody Documents and Other Forms

(SGS Accutest New Jersey)

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- QC Evaluation: CT RCP Limits

50 D'Angelo Drive, 495 Technology Center West, Bldg One, Marlborough, MA 01752
TEL. 508-481-6200 FAX. 508-481-7753
www.sgs.com

FED-EX Tracking # 7068 8600 9779	Bottle Order Control #
SGS Accutest Quote #	SGS Accutest Job MC49399

Client / Reporting Information				Project Information				Requested Analysis (see TEST CODE SHEET)												Matrix Codes																																																			
Company Name: SGS Accutest				Project Name: NRG Montville Lathrop Road, Montville, CT				<div style="display: flex; justify-content: space-between;"> <div>AS BE, CU, IN, V, ZN</div> <div>AS FE, MG, NO32, S, SO4, TOC, V</div> <div>AS FE, MG, V</div> <div>ASMS, BEMS, CUIMS, NIMS, VMS, ZNMS</div> </div>													DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank																																																		
Street Address 50 D'Angelo Drive, 495 Technology Center West, BLDG One				Street		Billing Information (if different from Report to)																																																																	
City State Zip		City State		Company Name																																																																			
Project Contact Donald.McDowell@sgs.com		Project #		Street Address																																																																			
Phone # 508-481-6200		Fax #		Client Purchase Order #		City State Zip																																																																	
Sampler(s) Name(s) AM				Project Manager		Attention:																																																																	
SGS Account Sample #	Field ID / Point of Collection	MEOH/DVI/Vial #	Collection		Date	Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MECH	ENDURE	AS	AS BE, CU, IN, V, ZN	AS FE, MG, NO32, S, SO4, TOC, V	AS FE, MG, V	ASMS, BEMS, CUIMS, NIMS, VMS, ZNMS	LAB USE ONLY																																																
1	AOC12-MW-301			1/16/17	8:20:00 AM	AM	AQ	1				1								X				A35																																															
2	AOC12-MW-302			1/16/17	9:50:00 AM	AM	AQ	1				1								X				G25																																															
3	AOC12-MW-306			1/16/17	11:10:00 AM	AM	AQ	1				1								X				19C1																																															
4	AOC12-MW-306-DUP			1/16/17	11:15:00 AM	AM	AQ	1				1								X																																																			
5	AOC12-MW-305			1/16/17	2:55:00 PM	AM	AQ	1				1								X																																																			
6	AOC12-MW-304R			1/16/17	3:50:00 PM	AM	AQ	1				1								X																																																			
7	NRG-MW-11			1/17/17	8:30:00 AM	AM	AQ	1				1								X																																																			
8	NRG-MW-05			1/17/17	10:00:00 AM	AM	AQ	1				1										X																																																	
9	NRG-MW-07			1/17/17	11:25:00 AM	AM	AQ	1				1										X																																																	
10	AOC3-SB4-MW2			1/17/17	12:20:00 PM	AM	AQ	1				1								X																																																			
11	AOC3-SB1-MW1			1/17/17	12:45:00 PM	AM	AQ	1				1								X																																																			
12	EQUIPMENT BLANK			1/17/17	1:00:00 PM	AM	AQ	1				1								X																																																			
Turnaround Time (Business days)																		Data Deliverable Information																		Comments / Special Instructions																																			
<input type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY <input checked="" type="checkbox"/> other Due 1/31/2017 Emergency & Rush TIA data available VIA Lablink																		Approved By (SGS Accutest PM) / Date: _____ <input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> NJ Reduced <input type="checkbox"/> Commercial "C" Commercial "A" = Results Only Commercial "B" = Results + QC Summary NJ Reduced = Results + QC Summary + Partial Raw data																		<input type="checkbox"/> NYASP Category A <input type="checkbox"/> NYASP Category B <input type="checkbox"/> State Forms <input type="checkbox"/> EDD Format <input checked="" type="checkbox"/> Other CTRCP																		INITIAL ASSESSMENT <i>3/1/02</i> LABEL VERIFICATION <i>AN</i>																	
Sample Custody must be documented below each time samples change possession, including courier delivery.																																																																							
Relinquished By: <i>Ray</i> Date/Ti: <i>1/17-17</i>																		Received By: <i>FEDX</i> Date/Ti: <i>1/18/17</i>																		Relinquished By: <i>Ray</i> Date/Ti: <i>1/18/17</i>																		Received By: <i>FEDX</i> Date/Ti: <i>1/18/17</i>																	
Relinquished by Sampler: <i>Ray</i> Date/Time: <i>1/17-17</i>																		Received By: <i>FEDX</i> Date/Time: <i>1/18/17</i>																		Relinquished by Sampler: <i>Ray</i> Date/Time: <i>1/18/17</i>																		Received By: <i>FEDX</i> Date/Time: <i>1/18/17</i>																	
Relinquished by: <i>Ray</i> Date/Time: <i>1/17-17</i>																		Received By: <i>FEDX</i> Date/Time: <i>1/18/17</i>																		Relinquished by: <i>Ray</i> Date/Time: <i>1/18/17</i>																		Received By: <i>FEDX</i> Date/Time: <i>1/18/17</i>																	

MC49399: Chain of Custody

Page 1 of 4

SGS Accutest New Jersey



ACCUTEST

CHAIN OF CUSTODY

Page 2 of 2

50 D'Angelo Drive, 495 Technology Center West, Bldg One, Marlborough, MA 01752
TEL: 508-481-6200 FAX: 508-481-7753
www.sgs.com

FED-EX Tracking # 7088 3600 9778
SGS Accutest Quote #

Bottle Order Control #

SGS Accutest Job MC49399

Client / Reporting Information				Project Information				Requested Analysis (see TEST CODE sheet)												Matrix Codes	
Company Name: SGS Accutest				Project Name: NRG Montville Lathrop Road, Montville, CT																DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank	
Street Address: 50 D'Angelo Drive, 495 Technology Center West, BLDG One				Street: City: State: Zip:																	
City: State: Zip: Marlborough, MA 01752				Billing Information (if different from Report to) Company Name:																	
Project Contact: Donald McDowell@sgs.com				Project #:																	
Phone #: 508-481-6200				Client Purchase Order #:																	
Sampler(s) Name(s): AM				Project Manager:																	
Field ID / Point of Collection				MECH/DI Vial #																LAB USE ONLY	
Date				Time																	
Sampled by				Matrix																	
# of bottles				Number of preserved bottles																	
13 AOC12-MW401				1/17/17 1:55:00 PM AM AQ 8																	
13F AOC12-MW401				1/17/17 1:55:00 PM AM AQ 1																	
14 EQUIPMENT BLANK				1/17/17 2:00:00 PM AM AQ 1																	
15 AOC12-MW402				1/17/17 12:00:00 AM AM AQ 8																	
15F AOC12-MW402				1/17/17 12:00:00 AM AM AQ 1																	
16 AOC12-MW402-DUP				1/17/17 12:00:00 AM AM AQ 1																	
16F AOC12-MW402-DUP				1/17/17 12:00:00 AM AM AQ 1																	
Turnaround Time (Business days)				Data Deliverable Information																Comments / Special Instructions	
<input type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY <input checked="" type="checkbox"/> other Due 1/31/2017 Emergency & Rush T/A data available VIA Lablink				Approved By (SGS Accutest PM) / Date:				<input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> NJ Reduced <input type="checkbox"/> Commercial "C" <input type="checkbox"/> Commercial "A" = Results Only <input type="checkbox"/> Commercial "B" = Results + QC Summary <input type="checkbox"/> NJ Reduced = Results + QC Summary + Partial Raw data													
Relinquished by Sampler:				Date Time:				Received By:				Date Time:				Received By:					
1				1-12-17				1				1/18/17 920				2					
Relinquished by Sampler:				Date Time:				Received By:				Date Time:				Received By:					
3								3								4					
Relinquished by:				Date Time:				Received By:				Date Time:				Received By:					
5								5								5					
Custody Seal #				Intact				Not Intact				Preserved when applicable				Cooler Temp.					
48																1.0%					

MC49399: Chain of Custody

Page 2 of 4

SGS Accutest Sample Receipt Summary

Job Number: MC49399

Client: _____

Project: _____

Date / Time Received: 1/18/2017 9:20:00 AM

Delivery Method: _____

Airbill #s: _____

Cooler Temps (Raw Measured) °C: Cooler 1: (1.0);

Cooler Temps (Corrected) °C: Cooler 1: (2.4);

Cooler Security

Y or N

Y or N

- | | | | | | |
|---------------------------|-------------------------------------|--------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Cooler Temperature

Y or N

- | | | |
|------------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Cooler temp verification: | IR Gun | |
| 3. Cooler media: | Ice (Bag) | |
| 4. No. Coolers: | 1 | |

Quality Control Preservation

Y or N

N/A

- | | | | |
|---------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Sample Integrity - Documentation

Y or N

- | | | |
|--|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Condition

Y or N

- | | | |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample: | Intact | |

Sample Integrity - Instructions

Y or N N/A

- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Comments

SM089-02
Rev. Date 12/1/16

MC49399: Chain of Custody

Page 3 of 4

Job Change Order: MC49399

Requested Date: 1/20/2017 Received Date: 1/17/2017
Account Name: CB&I Due Date: 1/31/2017
Project Description: NRG Montville Lathrop Road, Montville, CT Deliverable: CTRCP
CSR: jeremyv TAT (Days): 14

Sample #: MC49399-5 Change:

Dept:

TAT:

AOC12-MW-305

Sample #: MC49399-8 Change:

Dept: Move sample to A job and report metals to MDL

TAT: 14

NRG-MW-05

Above Changes Per:

Date/Time: 1/20/2017 9:19:24 AM

To Client: This Change Order is confirmation of the revisions, previously discussed with the SGS Accutest Client Service Representative.

Page 1 of 1

Internal Sample Tracking Chronicle

SGS Accutest New England

Job No: MC49399

FDG: NRG Montville Lathrop Road, Montville, CT

Project No: 1009644010 PO#CC

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC49399-1 Collected: 16-JAN-17 08:20 By: AM Received: 17-JAN-17 By: AL AOC12-MW-301						
MC49399-1	SW846 6010C	19-JAN-17 18:50	GT	19-JAN-17	CSF	AS,BE,CU,NI,V,ZN
MC49399-2 Collected: 16-JAN-17 09:50 By: AM Received: 17-JAN-17 By: AL AOC12-MW-302						
MC49399-2	SW846 6010C	19-JAN-17 18:56	GT	19-JAN-17	CSF	AS,BE,CU,NI,V,ZN
MC49399-3 Collected: 16-JAN-17 11:10 By: AM Received: 17-JAN-17 By: AL AOC12-MW-306						
MC49399-3	SW846 6010C	19-JAN-17 18:58	GT	19-JAN-17	CSF	AS,BE,CU,NI,V,ZN
MC49399-4 Collected: 16-JAN-17 11:15 By: AM Received: 17-JAN-17 By: AL AOC12-MW-306-DUP						
MC49399-4	SW846 6010C	19-JAN-17 19:07	GT	19-JAN-17	CSF	AS,BE,CU,NI,V,ZN
MC49399-5 Collected: 16-JAN-17 14:55 By: AM Received: 17-JAN-17 By: AL AOC12-MW-305						
MC49399-5	SW846 6010C	19-JAN-17 19:10	GT	19-JAN-17	CSF	AS,BE,CU,NI,V,ZN
MC49399-6 Collected: 16-JAN-17 15:50 By: AM Received: 17-JAN-17 By: AL AOC12-MW-304R						
MC49399-6	SW846 6010C	19-JAN-17 19:12	GT	19-JAN-17	CSF	AS,BE,CU,NI,V,ZN
MC49399-7 Collected: 17-JAN-17 08:30 By: AM Received: 17-JAN-17 By: AL NRG-MW-11						
MC49399-7	SW846 6010C	19-JAN-17 19:15	GT	19-JAN-17	CSF	AS,BE,CU,NI,V,ZN
MC49399-9 Collected: 17-JAN-17 11:25 By: AM Received: 17-JAN-17 By: AL NRG-MW-07						
MC49399-9	SW846 6010C	19-JAN-17 19:18	GT	19-JAN-17	CSF	AS,BE,CU,NI,V,ZN

Internal Sample Tracking Chronicle

SGS Accutest New England

Job No: MC49399

FDG: NRG Montville Lathrop Road, Montville, CT

Project No: 1009644010 PO#CC

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC49399-10 Collected: 17-JAN-17 12:20 By: AM Received: 17-JAN-17 By: AL AOC3-SB4-MW2						
MC49399-10	SW846 6010C	19-JAN-17 19:21	GT	19-JAN-17	CSF	AS,BE,CU,NI,V,ZN
MC49399-11 Collected: 17-JAN-17 12:45 By: AM Received: 17-JAN-17 By: AL AOC3-SB1-MW1						
MC49399-11	SW846 6010C	19-JAN-17 19:24	GT	19-JAN-17	CSF	AS,BE,CU,NI,V,ZN
MC49399-12 Collected: 17-JAN-17 13:00 By: AM Received: 17-JAN-17 By: AL EQUIPMENT BLANK						
MC49399-12	SW846 6010C	19-JAN-17 19:27	GT	19-JAN-17	CSF	AS,BE,CU,NI,V,ZN
MC49399-13 Collected: 17-JAN-17 13:55 By: AM Received: 17-JAN-17 By: AL AOC12-MW401						
MC49399-13	M4500S2- F-11	19-JAN-17 16:26	JA			S
MC49399-13	M5310 B-11	20-JAN-17 16:12	CD	20-JAN-17	CD	TOC
MC49399-13	EPA 200.7	21-JAN-17 14:42	DE	20-JAN-17	DP	AS,FE,MG,V
MC49399-13	EPA 353.2/LACHAT	24-JAN-17 15:03	BM	24-JAN-17	BM	NO32
MC49399-13	EPA 300/SW846 9056A26	26-JAN-17 01:43	TG	25-JAN-17	TG	SO4
MC49399-14 Collected: 17-JAN-17 14:00 By: AM Received: 17-JAN-17 By: AL EQUIPMENT BLANK						
MC49399-14	EPA 200.7	21-JAN-17 14:55	DE	20-JAN-17	DP	AS,FE,MG,V
MC49399-15 Collected: 17-JAN-17 00:00 By: AM Received: 17-JAN-17 By: AL AOC12-MW402						
MC49399-15	M4500S2- F-11	19-JAN-17 16:26	JA			S
MC49399-15	M5310 B-11	20-JAN-17 16:23	CD	20-JAN-17	CD	TOC
MC49399-15	EPA 200.7	21-JAN-17 14:58	DE	20-JAN-17	DP	AS,V
MC49399-15	EPA 353.2/LACHAT	24-JAN-17 15:07	BM	24-JAN-17	BM	NO32
MC49399-15	EPA 300/SW846 9056A26	26-JAN-17 02:55	TG	25-JAN-17	TG	SO4
MC49399-15	EPA 200.7	28-JAN-17 00:43	DE	20-JAN-17	DP	FE,MG

Internal Sample Tracking Chronicle

SGS Accutest New England

Job No: MC49399

FDG: NRG Montville Lathrop Road, Montville, CT
Project No: 1009644010 PO#CC

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC49399-16Collected: 17-JAN-17 00:00 By: AM Received: 17-JAN-17 By: AL AOC12-MW402-DUP						
MC49399-16	EPA 200.7	21-JAN-17 15:01	DE	20-JAN-17	DP	AS
MC49399-13Collected: 17-JAN-17 13:55 By: AM Received: 17-JAN-17 By: AL AOC12-MW401						
MC49399-13	EPA 200.7	21-JAN-17 15:04	DE	20-JAN-17	DP	AS,FE,MG,V
MC49399-15Collected: 17-JAN-17 00:00 By: AM Received: 17-JAN-17 By: AL AOC12-MW402						
MC49399-15	EPA 200.7	21-JAN-17 15:07	DE	20-JAN-17	DP	AS,FE,MG,V
MC49399-16Collected: 17-JAN-17 00:00 By: AM Received: 17-JAN-17 By: AL AOC12-MW402-DUP						
MC49399-16	EPA 200.7	21-JAN-17 15:10	DE	20-JAN-17	DP	AS

7.2
7

QC Evaluation: CT RCP Limits

Job Number: MC49399
Account: SGS Accutest New England
Project: FDG: NRG Montville Lathrop Road, Montville, CT
Collected: 01/16/17 thru 01/17/17

QC Sample ID	CAS#	Analyte	Sample Result Type	Result Type	Units	Limits
--------------	------	---------	--------------------	-------------	-------	--------

No Exceptions found.

* Sample used for QC is not from job MC49399

Metals Analysis

QC Data Summaries

(SGS Accutest New Jersey)

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: MC49399
Account: ALNE - SGS Accutest New England
Project: FDG: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP98215
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 01/19/17

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	7	21		
Antimony	6.0	2	3.3		
Arsenic	3.0	2	2.2	0.20	<3.0
Barium	200	.3	.44		
Beryllium	1.0	.1	.25	-0.10	<1.0
Bismuth	20	2.4	2.9		
Boron	100	1.5	3.9		
Cadmium	3.0	.3	.4		
Calcium	5000	120	33		
Chromium	10	.4	.81		
Cobalt	50	.3	.69		
Copper	10	.9	2.4	-0.60	<10
Iron	100	2.2	12		
Lead	3.0	1.5	2.3		
Lithium	20	1.5	4		
Magnesium	5000	22	85		
Manganese	15	.1	.39		
Molybdenum	20	.5	.88		
Nickel	10	.4	.76	0.0	<10
Palladium	50	1.2	3.7		
Phosphorus	50		3.7		
Potassium	10000	37	120		
Selenium	10	3.4	4.1		
Silicon	200	2.1	29		
Silver	10	.3	.88		
Sodium	10000	22	24		
Sulfur	50	8.4	6.9		
Strontium	10	.2	.22		
Thallium	2.0	1.8	1.9		
Tin	10	1.1	2.3		
Titanium	10	.4	.99		
Tungsten	50	1.6	3.2		
Vanadium	50	.3	.66	-0.10	<50

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: MC49399
Account: ALNE - SGS Accutest New England
Project: FDG: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP98215
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 01/19/17

Metal	RL	IDL	MDL	MB raw	final
Zinc	20	.3	1.3	0.50	<20
Zirconium	10	.2	.94		

Associated samples MP98215: MC49399-1, MC49399-2, MC49399-3, MC49399-4, MC49399-5, MC49399-6, MC49399-7, MC49399-9, MC49399-10, MC49399-11, MC49399-12

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

8.1.1

8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC49399
 Account: ALNE - SGS Accutest New England
 Project: FDG: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP98215
 Matrix Type: AQUEOUS

Methods: SW846 6010C
 Units: ug/l

Prep Date: 01/19/17

Metal	MC49399-1 Original MS		SpikeLot MPSPK2	% Rec	QC Limits
Aluminum					
Antimony					
Arsenic	4.3	1900	2000	94.8	75-125
Barium					
Beryllium	2.5	2090	2000	104.4	75-125
Bismuth					
Boron					
Cadmium					
Calcium					
Chromium					
Cobalt					
Copper	5.9	2040	2000	101.7	75-125
Iron	anr				
Lead					
Lithium					
Magnesium	anr				
Manganese					
Molybdenum					
Nickel	63.3	2070	2000	100.3	75-125
Palladium					
Phosphorus					
Potassium					
Selenium					
Silicon					
Silver					
Sodium					
Strontium					
Thallium					
Tin					
Titanium					
Tungsten					
Vanadium	2.9	2010	2000	100.4	75-125
Zinc	55.1	2040	2000	99.2	75-125

8.1.2
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC49399
 Account: ALNE - SGS Accutest New England
 Project: FDG: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP98215
 Matrix Type: AQUEOUS

Methods: SW846 6010C
 Units: ug/l

Prep Date: 01/19/17

Metal	MC49399-1 Original MS	SpikeLot MPSPK2	% Rec	QC Limits
-------	--------------------------	--------------------	-------	--------------

Zirconium

Associated samples MP98215: MC49399-1, MC49399-2, MC49399-3, MC49399-4, MC49399-5, MC49399-6, MC49399-7, MC49399-9, MC49399-10, MC49399-11, MC49399-12

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

8.1.2

8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC49399
 Account: ALNE - SGS Accutest New England
 Project: FDG: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP98215
 Matrix Type: AQUEOUS

Methods: SW846 6010C
 Units: ug/l

Prep Date: 01/19/17

Metal	MC49399-1 Original	MSD	Spikelet MPSPK2	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	4.3	1890	2000	94.3	0.5	20
Barium						
Beryllium	2.5	2050	2000	102.4	1.9	20
Bismuth						
Boron						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper	5.9	2020	2000	100.7	1.0	20
Iron	anr					
Lead						
Lithium						
Magnesium	anr					
Manganese						
Molybdenum						
Nickel	63.3	2040	2000	98.8	1.5	20
Palladium						
Phosphorus						
Potassium						
Selenium						
Silicon						
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Tungsten						
Vanadium	2.9	1990	2000	99.4	1.0	20
Zinc	55.1	2010	2000	97.7	1.5	20

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC49399
 Account: ALNE - SGS Accutest New England
 Project: FDG: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP98215
 Matrix Type: AQUEOUS

Methods: SW846 6010C
 Units: ug/l

Prep Date: 01/19/17

Metal	MC49399-1 Original MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit
-------	---------------------------	--------------------	-------	------------	-------------

Zirconium

Associated samples MP98215: MC49399-1, MC49399-2, MC49399-3, MC49399-4, MC49399-5, MC49399-6, MC49399-7, MC49399-9, MC49399-10, MC49399-11, MC49399-12

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

8.1.2

8

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC49399

Account: ALNE - SGS Accutest New England

Project: FDG: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP98215

Methods: SW846 6010C

Matrix Type: AQUEOUS

Units: ug/l

Prep Date:

01/19/17

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	1860	2000	93.0	80-120
Barium				
Beryllium	2060	2000	103.0	80-120
Bismuth				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper	1990	2000	99.5	80-120
Iron	anr			
Lead				
Lithium				
Magnesium	anr			
Manganese				
Molybdenum				
Nickel	1970	2000	98.5	80-120
Palladium				
Phosphorus				
Potassium				
Selenium				
Silicon				
Silver				
Sodium				
Sulfur				
Strontium				
Thallium				
Tin				
Titanium				
Tungsten				
Vanadium	1960	2000	98.0	80-120

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC49399
 Account: ALNE - SGS Accutest New England
 Project: FDG: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP98215
 Matrix Type: AQUEOUS

Methods: SW846 6010C
 Units: ug/l

Prep Date: 01/19/17

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
-------	---------------	--------------------	-------	--------------

Zinc	1960	2000	98.0	80-120
------	------	------	------	--------

Zirconium

Associated samples MP98215: MC49399-1, MC49399-2, MC49399-3, MC49399-4, MC49399-5, MC49399-6, MC49399-7, MC49399-9, MC49399-10, MC49399-11, MC49399-12

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

8.1.3

8

SERIAL DILUTION RESULTS SUMMARY

Login Number: MC49399
 Account: ALNE - SGS Accutest New England
 Project: FDG: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP98215
 Matrix Type: AQUEOUS

Methods: SW846 6010C
 Units: ug/l

Prep Date: 01/19/17

Metal	MC49399-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	4.30	0.00	100.0 (a)	0-10
Barium				
Beryllium	2.50	1.80	28.0 (a)	0-10
Bismuth				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper	5.90	0.00	100.0 (a)	0-10
Iron	anr			
Lead				
Lithium				
Magnesium	anr			
Manganese				
Molybdenum				
Nickel	63.3	61.4	3.0	0-10
Palladium				
Phosphorus				
Potassium				
Selenium				
Silicon				
Silver				
Sodium				
Sulfur				
Strontium				
Thallium				
Tin				
Titanium				
Tungsten				
Vanadium	2.90	4.30	48.3 (a)	0-10

SERIAL DILUTION RESULTS SUMMARY

Login Number: MC49399
 Account: ALNE - SGS Accutest New England
 Project: FDG: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP98215
 Matrix Type: AQUEOUS

Methods: SW846 6010C
 Units: ug/l

Prep Date: 01/19/17

Metal	MC49399-1		QC	
	Original	SDL 1:5	%DIF	Limits

Zinc 55.1 65.9 19.6*(b) 0-10

Zirconium

Associated samples MP98215: MC49399-1, MC49399-2, MC49399-3, MC49399-4, MC49399-5, MC49399-6, MC49399-7, MC49399-9, MC49399-10, MC49399-11, MC49399-12

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

(b) Serial dilution indicates possible matrix interference.

8.1.4

8

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: MC49399
Account: ALNE - SGS Accutest New England
Project: FDG: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP98248
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 01/20/17

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	16	22		
Antimony	6.0	2.7	3.1		
Arsenic	3.0	1.4	2.8	1.0	<3.0
Barium	200	.5	.54		
Beryllium	1.0	.1	.31		
Bismuth	20	3.6	2.8		
Boron	100	4.6	2.4		
Cadmium	3.0	.4	.43		
Calcium	5000	45	14		
Chromium	10	.5	1.1		
Cobalt	50	.4	.41		
Copper	10	.5	2.6		
Iron	100	2.8	18	-0.10	<100
Lead	3.0	1.2	2.5		
Lithium	20	3.7	3.5		
Magnesium	5000	21	90	22.1	<5000
Manganese	15	.1	.48		
Molybdenum	20	.4	1.4		
Nickel	10	.6	.64		
Palladium	50	3	2.8		
Phosphorus	50		2.8		
Potassium	10000	84	99		
Selenium	10	3.2	3.6		
Silicon	200	2.3	15		
Silver	10	1	.97		
Sodium	10000	38	25		
Sulfur	50	4.1	6.9		
Strontium	10	.1	.22		
Thallium	2.0	1.8	1.8		
Tin	10	1.1	1.6		
Titanium	10	.5	1.4		
Tungsten	50	1.9	2.1		
Vanadium	50	.4	.72	0.0	<50

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: MC49399
Account: ALNE - SGS Accutest New England
Project: FDG: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP98248
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 01/20/17

Metal	RL	IDL	MDL	MB raw	final
-------	----	-----	-----	-----------	-------

Zinc 20 1.8 1.2

Zirconium 10 .4 1

Associated samples MP98248: MC49399-13, MC49399-14, MC49399-15, MC49399-16, MC49399-13F, MC49399-15F, MC49399-16F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

8.2.1
8

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC49399

Account: ALNE - SGS Accutest New England

Project: FDG: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP98248

Methods: EPA 200.7

Matrix Type: AQUEOUS

Units: ug/l

Prep Date:

01/20/17

01/20/17

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits	BSP Result	Spikelot AGSPIKE	% Rec	QC Limits
Aluminum								
Antimony	anr							
Arsenic	2060	2000	103.0	85-115				
Barium	anr							
Beryllium	anr							
Bismuth								
Boron								
Cadmium	anr							
Calcium								
Chromium	anr							
Cobalt								
Copper	anr							
Iron	27300	25000	109.2	85-115				
Lead	anr							
Lithium								
Magnesium	27400	25000	109.6	85-115				
Manganese	anr							
Molybdenum								
Nickel	anr							
Palladium								
Phosphorus								
Potassium								
Selenium	anr							
Silicon								
Silver	anr							
Sodium								
Sulfur								
Strontium								
Thallium	anr							
Tin								
Titanium								
Tungsten								
Vanadium	2070	2000	103.5	85-115				

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC49399
 Account: ALNE - SGS Accutest New England
 Project: FDG: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP98248
 Matrix Type: AQUEOUS

Methods: EPA 200.7
 Units: ug/l

Prep Date: 01/20/17 01/20/17

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits	BSP Result	Spikelot AGSPIKE	% Rec	QC Limits
-------	---------------	--------------------	-------	--------------	---------------	---------------------	-------	--------------

Zinc anr

Zirconium

Associated samples MP98248: MC49399-13, MC49399-14, MC49399-15, MC49399-16, MC49399-13F, MC49399-15F, MC49399-16F

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

8.2.2
8

SERIAL DILUTION RESULTS SUMMARY

Login Number: MC49399
 Account: ALNE - SGS Accutest New England
 Project: FDG: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP98248
 Matrix Type: AQUEOUS

Methods: EPA 200.7
 Units: ug/l

Prep Date: 01/20/17

Metal	JC35777-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	anr			
Arsenic	3.30	0.00	100.0 (a)	0-10
Barium	anr			
Beryllium	anr			
Bismuth				
Boron				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper	anr			
Iron	79.4	53.6	32.5 (a)	0-10
Lead	anr			
Lithium				
Magnesium	36100	32000	11.2* (b)	0-10
Manganese	anr			
Molybdenum				
Nickel	anr			
Palladium				
Phosphorus				
Potassium				
Selenium	anr			
Silicon				
Silver	anr			
Sodium				
Sulfur				
Strontium				
Thallium	anr			
Tin				
Titanium				
Tungsten				
Vanadium	1.60	2.90	81.3 (a)	0-10

SERIAL DILUTION RESULTS SUMMARY

Login Number: MC49399
 Account: ALNE - SGS Accutest New England
 Project: FDG: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP98248
 Matrix Type: AQUEOUS

Methods: EPA 200.7
 Units: ug/l

Prep Date: 01/20/17

Metal	JC35777-1 Original SDL 1:5	%DIF	QC Limits
-------	-------------------------------	------	--------------

Zinc anr

Zirconium

Associated samples MP98248: MC49399-13, MC49399-14, MC49399-15, MC49399-16, MC49399-13F, MC49399-15F, MC49399-16F

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

(b) Serial dilution indicates possible matrix interference.

8.2.3

8

General Chemistry

QC Data Summaries

(SGS Accutest New Jersey)

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: MC49399
Account: ALNE - SGS Accutest New England
Project: FDG: NRG Montville Lathrop Road, Montville, CT

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chloride	GP2883/GN58481	2.0	0.0	mg/l	80	80.6	100.8	90-110%
Nitrogen, Nitrate + Nitrite	GP2843/GN58446	0.10	0.024	mg/l	2	2.17	108.5	90-110%
Sulfate	GP2883/GN58481	10	0.0	mg/l	80	81.8	102.3	90-110%
Sulfide	GN58251	2.0	0.0	mg/l	4.80	4.7	97.9	80-120%
Sulfide	GN58251			mg/l	9.60	9.4	97.9	80-120%
Total Organic Carbon	GP2785/GN58271	1.0	0.0	mg/l	10	9.69	96.9	90-110%

Associated Samples:

Batch GP2785: MC49399-13, MC49399-15
Batch GP2843: MC49399-13, MC49399-15
Batch GP2883: MC49399-13, MC49399-15
Batch GN58251: MC49399-13, MC49399-15
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: MC49399
Account: ALNE - SGS Accutest New England
Project: FDG: NRG Montville Lathrop Road, Montville, CT

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Nitrogen, Nitrate + Nitrite	GP2843/GN58446	MC49399-15	mg/l	0.055	0.048	37.0(a)	0-22%
Sulfide	GN58251	MC49399-13	mg/l	0.0	0.0	0.0	0-13%

Associated Samples:

Batch GP2843: MC49399-13, MC49399-15

Batch GN58251: MC49399-13, MC49399-15

(*) Outside of QC limits

(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: MC49399
Account: ALNE - SGS Accutest New England
Project: FDG: NRG Montville Lathrop Road, Montville, CT

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Nitrogen, Nitrate + Nitrite	GP2843/GN58446	MC49399-15	mg/l	0.055	1	1.1	106.7	90-110%
Sulfide	GN58251	MC49399-15	mg/l	0.0	3.3	3.0	90.9	42-143%

Associated Samples:

Batch GP2843: MC49399-13, MC49399-15

Batch GN58251: MC49399-13, MC49399-15

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

9.3

6

Data Usability Worksheet

Project Name : NRG Montville

Job Number : 631207126

Prepared By: Cathy Joe Mainville

Date : 2/6/2017

Validated By: Kim Napier

Date : 2/8/2017

Matrix: Groundwater

Analyte Group : Select Metals

Analytical Method : SW846 6020A

Completed RCP Certification Form included: Yes

Laboratory ID No. : MC49399A

Chain of Custody included in Data Package ? Yes

Is it Complete ? Yes

Sample Collection Date	Analysis	Allowable Holding Time for	Allowable Holding Time	Analysis Date
1/17/2017	SW846 6020A - Metals		180 Days	1/30/2017

Sample temperature within QC limits: Yes, 5.4°C

Surrogate Recovery

Are all % recoveries within the allowable range ? NA

If No, List sample ID where range was exceeded: N/A

MS/MSD

Are all MS/MSD sample recoveries within the QC limits ? Yes

If No, list sample ID, date and compound where limit was exceeded: N/A

Laboratory Control Samples

Are all laboratory control sample recoveries within the QC limits ? Yes

If no, list sample ID where range was exceeded:

Equipment Field Blank ID : NA

Trip Blank ID : N/A

Method Blank: 1/23/2017

Were any compounds identified in the method blank, field blank or trip blank above detection limits ? No

If so, list Sample ID/Compound/Concentration/Units:

Notes:

RPD(s) for Serial Dilution for Beryllium, Copper, Nickel, Vanadium, Zinc are outside control limits for sample MP98290-SD1. Serial dilution indicates possible matrix interference.

No qualification necessary since batch QC performed. Not NRG sample.

Reviewed By: Kim Napier

Technical Report for

CB&I

NRG Montville Lathrop Road, Montville, CT

1009644010 PO#CC

SGS Accutest Job Number: MC49399A

Sampling Date: 01/17/17

Report to:


**CB&I
150 Royall Street
Canton, MA 02021
andrea.steele@cbi.com**

ATTN: Andrea Steele

Total number of pages in report: 26



Test results contained within this data package meet the requirements
of the National Environmental Laboratory Accreditation Program
and/or state specific certification programs as applicable.


**H. (Brad) Madadian
Lab Director**

Client Service contact: Jeremy Vienneau 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) FL (E87579) NY (11791)
NJ (MA926) PA (6801121) ND (R-188) CO (MA00136) MN (11546AA) NC (653) IL (002337) WI (399080220)
DoD ELAP (L-A-B L2235)

This report shall not be reproduced, except in its entirety, without the written approval of SGS Accutest.
Test results relate only to samples analyzed.

Table of Contents

-1-

Section 1: Sample Summary 3

Section 2: Case Narrative/Conformance Summary 4

Section 3: Summary of Hits 6

Section 4: Sample Results 7

4.1: MC49399-8: NRG-MW-05 8

Section 5: Misc. Forms 9

5.1: Chain of Custody 10

5.2: RCP Form 12

5.3: RCP Form (SGS Accutest New Jersey) 13

5.4: Sample Tracking Chronicle 14

5.5: QC Evaluation: CT RCP Limits 15

Section 6: Misc. Forms (SGS Accutest New Jersey) 16

6.1: Chain of Custody 17

6.2: Sample Tracking Chronicle 21

6.3: QC Evaluation: CT RCP Limits 22

Section 7: Metals Analysis - QC Data (SGS Accutest New Jersey) 23

7.1: Prep QC MP98290: As,Be,Cu,Ni,V,Zn 24



Sample Summary

CB&I

Job No: MC49399A

NRG Montville Lathrop Road, Montville, CT
Project No: 1009644010 PO#CC

Sample Number	Collected		Matrix			Client Sample ID
	Date	Time By	Received	Code	Type	
MC49399-8	01/17/17	10:00 AM	01/17/17	AQ	Ground Water	NRG-MW-05

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CB&I

Job No MC49399A

Site: NRG Montville Lathrop Road, Montville, CT

Report Date 1/31/2017 2:40:28 PM

1 Sample was collected on 01/17/2017 and were received at SGS Accutest New England on 01/17/2017 properly preserved, at 5.4 Deg. C and intact. These Samples received a job number of MC49399A. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Metals By Method SW846 6020A

Matrix: AQ

Batch ID: N:MP98290

- Analysis performed at SGS Accutest, Dayton, NJ.

SGS Accutest New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Laboratory Director for SGS Accutest New England or assignee as verified by the signature on the cover page has authorized the release of this report(MC49399A).

Tuesday, January 31, 2017

Page 1 of 1

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: SGS Accutest New England

Job No MC49399A

Site: FDG: NRG Montville Lathrop Road, Montville, CT

Report Date 1/31/2017 2:13:28 PM

On 01/18/2017, 1 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS Accutest at a maximum corrected temperature of 2.4 C. Samples were intact and chemically preserved, unless noted below. A SGS Accutest Job Number of MC49399A was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Metals By Method SW846 6020A

Matrix: AQ

Batch ID: MP98290

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) FA40425-1SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Beryllium, Copper, Nickel, Vanadium, Zinc are outside control limits for sample MP98290-SD1. Serial dilution indicates possible matrix interference.

SGS Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS Accutest is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS Accutest indicated via signature on the report cover

Tuesday, January 31, 2017

Page 1 of 1

Summary of Hits

Job Number: MC49399A
Account: CB&I
Project: NRG Montville Lathrop Road, Montville, CT
Collected: 01/17/17



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC49399-8	NRG-MW-05					
Arsenic ^a		2.8	1.0		ug/l	SW846 6020A
Nickel ^a		11.1	2.0		ug/l	SW846 6020A
Vanadium ^a		6.3	2.0		ug/l	SW846 6020A
Zinc ^a		18.4	10		ug/l	SW846 6020A

(a) Analysis performed at SGS Accutest, Dayton, NJ.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	NRG-MW-05	Date Sampled:	01/17/17
Lab Sample ID:	MC49399-8	Date Received:	01/17/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By		Method	Prep Method
Arsenic ^a	2.8	1.0	ug/l	2	01/23/17	01/30/17	ANJ	SW846 6020A ¹	SW846 3010A ²
Beryllium ^a	< 1.0	1.0	ug/l	2	01/23/17	01/30/17	ANJ	SW846 6020A ¹	SW846 3010A ²
Copper ^a	< 4.0	4.0	ug/l	2	01/23/17	01/30/17	ANJ	SW846 6020A ¹	SW846 3010A ²
Nickel ^a	11.1	2.0	ug/l	2	01/23/17	01/30/17	ANJ	SW846 6020A ¹	SW846 3010A ²
Vanadium ^a	6.3	2.0	ug/l	2	01/23/17	01/30/17	ANJ	SW846 6020A ¹	SW846 3010A ²
Zinc ^a	18.4	10	ug/l	2	01/23/17	01/30/17	ANJ	SW846 6020A ¹	SW846 3010A ²

- (1) Instrument QC Batch: N:MA41270
(2) Prep QC Batch: N:MP98290
- (a) Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit

Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- RCP Form
- RCP Form (SGS Accutest New Jersey)
- Sample Tracking Chronicle
- QC Evaluation: CT RCP Limits



ACCUTEST

CHAIN OF CUSTODY

SGS Accutest of New England
59 D'Angelo Drive/95 Technology Center West, Building One, Marlborough, MA 01752
TEL: 508-481-6200 FAX: 508-481-7753
www.accutest.com

PAGE 1 OF 2

Client / Reporting Information				Project Information				Requested Analysis (see TEST CODE sheet)												Matrix Codes					
Company Name CB&I Environmental				Project Name NRG Montville				by EPA Method 6010C Total Metals (As, Be, Cu, Ni, V, Zn)												DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Waste PB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank					
Street Address 150 Royall Street				Street 74 Lathrop Road				Total Metals (As, Be, Cu, Ni, V, Zn) low level by EPA Method 6020A																	
City Canton, MA 02021				City Uncasville, CT																					
Project Contact Andrew.walker@cbi.com				Project# 631207126																					
Phone # 617-589-6143				Client PO# P-card																					
Fax # 774-551-6197				Project Manager Andy Walker																					
Sampler(s) Name(s) Austin Magnant				Attention: PC#																					
Phone # 774-551-6197																									
Field ID / Point of Collection				Collection				Number of preserved Bottles												LAB USE ONLY					
MECHDOI Vial #				Date				Time				Sampled by				Matrix				# of bottles					
1 AOC12-MW-301				01-16-17				0830				AM				GW				1					
2 AOC12-MW-302				01-16-17				0950				AM				GW				1					
3 AOC12-MW-306				01-16-17				1110				AM				GW				1					
4 AOC12-MW-306-Dup				01-16-17				1115				AM				GW				1				INITIAL ASSESSMENT	
5 AOC12-MW-305				01-16-17				1455				AM				GW				1				VERIFICATION	
6 AOC12-MW-304R				01-16-17				1550				AM				GW				1					
7 NRG-MW-11				01-17-17				0830				AM				GW				1					
8 NRG-MW-05				01-17-17				1000				AM				GW				1				12A	
9 NRG-MW-07				01-17-17				1135				AM				GW				1					
10 AOC3-SB4-MW2				01-17-17				1200				AM				GW				1					
11 AOC3-SB1-MW1				01-17-17				1245				AM				GW				1					
12 Equipment Blank				01-17-17				1300				AM				GW				1					
Turnaround Time (Business days) <input checked="" type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY				Approved By (SGS Accutest PM): / Date:				Commercial "A" (Level 1) <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> FULLT1 (Level 3+4) <input checked="" type="checkbox"/> CT RCP <input type="checkbox"/> MA MCP				NYASP Category A <input type="checkbox"/> NYASP Category B <input type="checkbox"/> State Forms <input checked="" type="checkbox"/> EDD Format: GIS Key <input type="checkbox"/> Other				*NRG-MW3 detection limits must meet GA GWPC. *NRG-MW5 report results to MDL on separate report and detection limits must meet GA GWPC and CT WQC. QA/QC Reporting: CTDEEP RCP and Site-Specific QAPP. Please email GIS Key formatted EDD & PDF to catherine.joe@cbi.com.									
Emergency & Rush TIA data available VIA Lablink				Sample Custody must be documented below each time samples change possession, including courier delivery.																					
Relinquished by Sampler: 1				Date Time: 01-17-17 1645				Received By: 1				Relinquished By: 2				Date Time: 2				Received By: 2					
Relinquished by Sampler: 3				Date Time:				Received By: 3				Relinquished By: 4				Date Time:				Received By: 4					
Relinquished by Sampler: 5				Date Time:				Received By: 5				Custody Seal #				<input type="checkbox"/> Intact <input type="checkbox"/> Preserved where applicable <input type="checkbox"/> Not Intact <input type="checkbox"/>				On Ice <input type="checkbox"/> Cooler Temp. 5.4-4.6C					

MC49399A: Chain of Custody

Page 1 of 2





ACCUTEST

CHAIN OF CUSTODY

SGS Accutest of New England
59 D'Angelo Drive/495 Technology Center West, Building One, Marlborough, MA 01752
TEL: 508-481-6200 FAX: 508-481-7753
www.accutest.com

PAGE 2 OF 2

Client / Reporting Information				Project Information				Requested Analysis (see TEST CODE sheet)												Matrix Codes	
Company Name CB&I Environmental				Project Name NRG Montville																	
Street Address 150 Royall Street				Street 74 Lathrop Road																	
City State Zip Canton, MA 02021				City Uncasville, CT																	
Project Contact Andrew.walker@cbi.com				Project# 631207126																	
Phone # 617-589-6143				Client PC# p-card																	
Sampler(s) Name(s) Austin Magnant				Project Manager Andy Walker																	
Phone # 774-551-6197				Attention: PO#																	
Collection				Billing Information (if different from Report to)																	
MECH/ID Vial #				Company Name																	
Date				Street Address																	
Time				City State Zip																	
Sampled by				City State Zip																	
Matrix				City State Zip																	
# of bottles				City State Zip																	
NO				City State Zip																	
MECH-1				City State Zip																	
H2O				City State Zip																	
H2O2				City State Zip																	
H2O3				City State Zip																	
H2O4				City State Zip																	
H2O5				City State Zip																	
H2O6				City State Zip																	
H2O7				City State Zip																	
H2O8				City State Zip																	
H2O9				City State Zip																	
H2O10				City State Zip																	
H2O11				City State Zip																	
H2O12				City State Zip																	
H2O13				City State Zip																	
H2O14				City State Zip																	
H2O15				City State Zip																	
H2O16				City State Zip																	
H2O17				City State Zip																	
H2O18				City State Zip																	
H2O19				City State Zip																	
H2O20				City State Zip																	
H2O21				City State Zip																	
H2O22				City State Zip																	
H2O23				City State Zip																	
H2O24				City State Zip																	
H2O25				City State Zip																	
H2O26				City State Zip																	
H2O27				City State Zip																	
H2O28				City State Zip																	
H2O29				City State Zip																	
H2O30				City State Zip																	
H2O31				City State Zip																	
H2O32				City State Zip																	
H2O33				City State Zip																	
H2O34				City State Zip																	
H2O35				City State Zip																	
H2O36				City State Zip																	
H2O37				City State Zip																	
H2O38				City State Zip																	
H2O39				City State Zip																	
H2O40				City State Zip																	
H2O41				City State Zip																	
H2O42				City State Zip																	
H2O43				City State Zip																	
H2O44				City State Zip																	
H2O45				City State Zip																	
H2O46				City State Zip																	
H2O47				City State Zip																	
H2O48				City State Zip																	
H2O49				City State Zip																	
H2O50				City State Zip																	
H2O51				City State Zip																	
H2O52				City State Zip																	
H2O53				City State Zip																	
H2O54				City State Zip																	
H2O55				City State Zip																	
H2O56				City State Zip																	
H2O57				City State Zip																	
H2O58				City State Zip																	
H2O59				City State Zip																	
H2O60				City State Zip																	
H2O61				City State Zip																	
H2O62				City State Zip																	
H2O63				City State Zip																	
H2O64				City State Zip																	
H2O65				City State Zip																	
H2O66				City State Zip																	
H2O67				City State Zip																	
H2O68				City State Zip																	
H2O69				City State Zip																	
H2O70				City State Zip																	
H2O71				City State Zip																	
H2O72				City State Zip																	
H2O73				City State Zip																	
H2O74				City State Zip																	
H2O75				City State Zip																	
H2O76				City State Zip																	
H2O77				City State Zip																	
H2O78				City State Zip																	
H2O79				City State Zip																	
H2O80				City State Zip																	
H2O81				City State Zip																	
H2O82				City State Zip																	
H2O83				City State Zip																	
H2O84				City State Zip																	
H2O85				City State Zip																	
H2O86				City State Zip																	
H2O87				City State Zip																	
H2O88				City State Zip																	
H2O89				City State Zip																	
H2O90				City State Zip																	
H2O91				City State Zip																	
H2O92				City State Zip																	
H2O93				City State Zip																	
H2O94				City State Zip																	
H2O95				City State Zip																	
H2O96				City State Zip																	
H2O97				City State Zip																	
H2O98				City State Zip																	
H2O99				City State Zip																	
H2O100				City State Zip																	
H2O101				City State Zip																	
H2O102				City State Zip																	
H2O103				City State Zip																	
H2O104				City State Zip																	
H2O105				City State Zip																	
H2O106				City State Zip																	
H2O107				City State Zip																	
H2O108				City State Zip																	
H2O109				City State Zip																	
H2O110				City State Zip																	
H2O111				City State Zip																	
H2O112				City State Zip																	
H2O113				City State Zip																	
H2O114				City State Zip																	
H2O115				City State Zip																	
H2O116				City State Zip																	
H2O117				City State Zip																	
H2O118				City State Zip																	
H2O119				City State Zip																	
H2O120				City State Zip																	
H2O121				City State Zip																	
H2O122				City State Zip																	
H2O123				City State Zip																	
H2O124				City State Zip																	
H2O125				City State Zip																	
H2O126				City State Zip																	
H2O127				City State Zip																	
H2O128				City State Zip																	
H2O129				City State Zip																	
H2O130				City State Zip																	
H2O131				City State Zip																	
H2O132				City State Zip																	
H2O133				City State Zip																	
H2O134				City State Zip																	
H2O135				City State Zip																	
H2O136				City State Zip																	
H2O137				City State Zip																	
H2O138				City State Zip																	
H2O139				City State Zip																	
H2O140				City State Zip																	
H2O141				City State Zip																	
H2O142				City State Zip																	
H2O143				City State Zip																	
H2O144				City State Zip																	
H2O145				City State Zip																	
H2O146				City State Zip																	
H2O147				City State Zip																	
H2O148				City State Zip																	
H2O149				City State Zip																	
H2O150				City State Zip																	
H2O151				City State Zip																	
H2O152				City State Zip																	
H2O153				City State Zip																	
H2O154				City State Zip																	
H2O155				City State Zip																	
H2O156				City State Zip																	
H2O157				City State Zip																	
H2O158				City State Zip																	
H2O159				City State Zip																	
H2O160				City State Zip																	
H2O161				City State Zip																	
H2O162				City State Zip																	
H2O163				City State Zip																	
H2O164				City State Zip																	
H2O165				City State Zip																	
H2O166				City State Zip																	
H2O167				City State Zip																	
H2O168				City State Zip																	
H2O169				City State Zip																	
H2O170				City State Zip																	
H2O171				City State Zip																	
H2O172				City State Zip																	
H2O173				City State Zip																	
H2O174				City State Zip																	
H2O175				City State Zip																	
H2O176				City State Zip																	
H2O177				City State Zip																	
H2O178				City State Zip																	
H2O179				City State Zip																	
H2O180				City State Zip																	
H2O181				City State Zip																	
H2O182				City State Zip																	
H2O183				City State Zip																	
H2O184				City State Zip																	
H2O185				City State Zip																	
H2O186				City State Zip																	
H2O187				City State Zip																	
H2O188				City State Zip																	
H2O189				City State Zip																	
H2O190				City State Zip																	
H2O191				City State Zip																	
H2O192				City State Zip																	
H2O193				City State Zip																	
H2O194				City State Zip																	
H2O195				City State Zip																	
H2O196				City State Zip																	
H2O197				City State Zip																	
H2O198				City State Zip																	
H2O199				City State Zip																	
H2O200				City State Zip																	
H2O201				City State Zip																	
H2O202				City State Zip																	
H2O203				City State Zip																	
H2O204				City State Zip																	
H2O205				City State Zip																	
H2O206				City State Zip																	
H2O207				City State Zip																	
H2O208				City State Zip																	
H2O209				City State Zip																	
H2O210				City State Zip																	
H2O211				City State Zip																	
H2O212				City State Zip																	
H2O213				City State Zip																	
H2O214				City State Zip																	
H2O215				City State Zip																	
H2O216				City State Zip																	
H2O217				City State Zip																	
H2O218				City State Zip																	
H2O219				City State Zip																	
H2O220				City State Zip																	
H2O221				City State Zip																	
H2O222				City State Zip																	
H2O223				City State Zip																	
H2O224				City State Zip																	
H2O225				City State Zip																	
H2O226				City State Zip																	
H2O227				City State Zip																	
H2O228				City State Zip																	
H2O229				City State Zip																	
H2O230				City State Zip																	
H2O231				City State Zip																	
H2O232				City State Zip																	
H2O233				City State Zip																	
H2O234				City State Zip																	
H2O235				City State Zip																	
H2O236				City State Zip																	
H2O237				City State Zip																	
H2O238				City State Zip																	
H2O239				City State Zip																	
H2O240				City State Zip																	
H2O241				City State Zip																	
H2O242				City State Zip																	
H2O243				City State Zip																	
H2O244				City State Zip																	
H2O245				City State Zip																	
H2O246				City State Zip																	
H2O247				City State Zip																	
H2O248				City State Zip																	
H2O249				City State Zip																	
H2O250				City State Zip																	
H2O251				City State Zip																	
H2O252				City State Zip																	
H2O253				City State Zip																	
H2O254				City State Zip																	
H2O255				City State Zip																	
H2O256				City State Zip																	
H2O257				City State Zip																	
H2O258				City State Zip																	
H2O259				City State Zip																	
H2O260																					

Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form


Laboratory Name: Accutest New England Client: CB&I
Project Location: NRG Montville Lathrop Road, Montville, CT Project Number: 1009644010 PO#
Sampling Date(s): 1/17/2017
Laboratory Sample ID(s): MC49399-8

Methods: SW846 6020A

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents)?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
1A	Where all the method specified preservation and holding time requirements met?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
1B	VPH and EPH methods only: Was the VPH or EPH method conducted without significant modifications (See section 11.3 of respective methods)	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
3	Were samples received at an appropriate temperature (<6° C)?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
5	a) Were reporting limits specified or referenced on the chain-of-custody?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
	b) Were these reporting limits met?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized
Signature:  Position: Lab Director
Printed Name: H. (Brad) Madadian Date: 1/31/2017
Accutest New England

Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

Laboratory Name: Accutest New England Client: SGS Accutest New England

Project Location: FDG: NRG Montville Lathrop Road, Montville, CT Project Number: FDG18607

Sampling Date(s): 1/17/2017

Laboratory Sample ID(s): MC49399-8

Methods: SW846 6020A

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents)?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
1A	Where all the method specified preservation and holding time requirements met?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
1B	VPH and EPH methods only: Was the VPH or EPH method conducted without significant modifications (See section 11.3 of respective methods)	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
3	Were samples received at an appropriate temperature (<6° C)?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
5	a) Were reporting limits specified or referenced on the chain-of-custody?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
	b) Were these reporting limits met?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized

Signature:

Nancy T. Cole

Position: Lab Director

Printed Name:

Nancy Cole
Mid-Atlantic Laboratory

Date: 1/31/2017

Internal Sample Tracking Chronicle

CB&I

Job No: MC49399A

NRG Montville Lathrop Road, Montville, CT
Project No: 1009644010 PO#CC

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC49399-8 Collected: 17-JAN-17 10:00 By: AM Received: 17-JAN-17 By: BA NRG-MW-05						

MC49399-8 SW846 6020A	30-JAN-17 16:55	ANJ	23-JAN-17	ANJ	ASMS,BEMS,CUMS,NIMS,VMS, ZNMS
-----------------------	-----------------	-----	-----------	-----	----------------------------------

QC Evaluation: CT RCP Limits

Job Number: MC49399A
Account: CB&I
Project: NRG Montville Lathrop Road, Montville, CT
Collected: 01/17/17

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
--------------	------	---------	-------------	-------------	--------	-------	--------

No Exceptions found.

* Sample used for QC is not from job MC49399A

Misc. Forms

Custody Documents and Other Forms

(SGS Accutest New Jersey)

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- QC Evaluation: CT RCP Limits





ACCUTEST

CHAIN OF CUSTODY

50 D'Angelo Drive, 495 Technology Center West, Bldg One, Marlborough, MA 01752
TEL 508-481-6200 FAX 508-481-7753
www.sgs.com

FED-EX Tracking # 1068 3600 9779
SGS Accutest Quote #
Bottle Order Control #
SGS Accutest Job MC49399

Client / Reporting Information				Project Information				Requested Analysis (see TEST CODE sheet)												Matrix Codes	
Company Name: SGS Accutest				Project Name: NRG Montville Lathrop Road, Montville, CT																DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank	
Street Address 50 D'Angelo Drive, 495 Technology Center West, BLDG One City State Zip Marlborough, MA 01752				Billing Information (if different from Report to) Company Name Street Address City State Zip																	
Project Contact E-mail Donald.McDowell@sgs.com				Project #																	
Phone # 508-481-6200				Fax #																	
Sampler(s) Name(s) AM				Project Manager																	
Attention:																					
Collection				Number of preserved Bottles																	
Field ID / Point of Collection				MEOH/DI Vial #																	
Date				Time																	
Sampled By				Matrix																	
# of bottles				IIG																	
IIG01				IIG02																	
IIG03				IIG04																	
IIG05				IIG06																	
IIG07				IIG08																	
IIG09				IIG10																	
IIG11				IIG12																	
IIG13				IIG14																	
IIG15				IIG16																	
IIG17				IIG18																	
IIG19				IIG20																	
IIG21				IIG22																	
IIG23				IIG24																	
IIG25				IIG26																	
IIG27				IIG28																	
IIG29				IIG30																	
IIG31				IIG32																	
IIG33				IIG34																	
IIG35				IIG36																	
IIG37				IIG38																	
IIG39				IIG40																	
IIG41				IIG42																	
IIG43				IIG44																	
IIG45				IIG46																	
IIG47				IIG48																	
IIG49				IIG50																	
IIG51				IIG52																	
IIG53				IIG54																	
IIG55				IIG56																	
IIG57				IIG58																	
IIG59				IIG60																	
IIG61				IIG62																	
IIG63				IIG64																	
IIG65				IIG66																	
IIG67				IIG68																	
IIG69				IIG70																	
IIG71				IIG72																	
IIG73				IIG74																	
IIG75				IIG76																	
IIG77				IIG78																	
IIG79				IIG80																	
IIG81				IIG82																	
IIG83				IIG84																	
IIG85				IIG86																	
IIG87				IIG88																	
IIG89				IIG90																	
IIG91				IIG92																	
IIG93				IIG94																	
IIG95				IIG96																	
IIG97				IIG98																	
IIG99				IIG100																	
IIG101				IIG102																	
IIG103				IIG104																	
IIG105				IIG106																	
IIG107				IIG108																	
IIG109				IIG110																	
IIG111				IIG112																	
IIG113				IIG114																	
IIG115				IIG116																	
IIG117				IIG118																	
IIG119				IIG120																	
IIG121				IIG122																	
IIG123				IIG124																	
IIG125				IIG126																	
IIG127				IIG128																	
IIG129				IIG130																	
IIG131				IIG132																	
IIG133				IIG134																	
IIG135				IIG136																	
IIG137				IIG138																	
IIG139				IIG140																	
IIG141				IIG142																	
IIG143				IIG144																	
IIG145				IIG146																	
IIG147				IIG148																	
IIG149				IIG150																	
IIG151				IIG152																	
IIG153				IIG154																	
IIG155				IIG156																	
IIG157				IIG158																	
IIG159				IIG160																	
IIG161				IIG162																	
IIG163				IIG164																	
IIG165				IIG166																	
IIG167				IIG168																	
IIG169				IIG170																	
IIG171				IIG172																	
IIG173				IIG174																	
IIG175				IIG176																	
IIG177				IIG178																	
IIG179				IIG180																	
IIG181				IIG182																	
IIG183				IIG184																	
IIG185				IIG186																	
IIG187				IIG188																	
IIG189				IIG190																	
IIG191				IIG192																	
IIG193				IIG194																	
IIG195				IIG196																	
IIG197				IIG198																	
IIG199				IIG200																	
IIG201				IIG202																	
IIG203				IIG204																	
IIG205				IIG206																	
IIG207				IIG208																	
IIG209				IIG210																	
IIG211				IIG212																	
IIG213				IIG214																	
IIG215				IIG216																	
IIG217				IIG218																	
IIG219				IIG220																	
IIG221				IIG222																	
IIG223				IIG224																	
IIG225				IIG226																	
IIG227				IIG228																	
IIG229				IIG230																	
IIG231				IIG232																	
IIG233				IIG234																	
IIG235				IIG236																	
IIG237				IIG238																	
IIG239				IIG240																	
IIG241				IIG242																	
IIG243				IIG244																	
IIG245				IIG246																	
IIG247				IIG248																	
IIG249				IIG250																	
IIG251				IIG252																	
IIG253				IIG254																	
IIG255				IIG256																	
IIG257				IIG258																	
IIG259				IIG260																	
IIG261				IIG262																	
IIG263				IIG264																	
IIG265				IIG266																	
IIG267				IIG268																	
IIG269				IIG270																	
IIG271				IIG272																	
IIG273				IIG274																	
IIG275				IIG276																	
IIG277				IIG278																	
IIG279				IIG280																	
IIG281				IIG282																	
IIG283				IIG284																	
IIG285				IIG286																	
IIG287				IIG288																	
IIG289				IIG290																	
IIG291				IIG292																	
IIG293				IIG294																	
IIG295				IIG296																	
IIG297				IIG298																	
IIG299				IIG300																	
IIG301				IIG302																	
IIG303				IIG304																	
IIG305				IIG306																	
IIG307				IIG308																	
IIG309				IIG310																	
IIG311				IIG312																	
IIG313				IIG314																	
IIG315				IIG316																	
IIG317				IIG318																	
IIG319				IIG320																	
IIG321				IIG322																	
IIG323				IIG324																	
IIG325				IIG326																	
IIG327				IIG328																	
IIG329				IIG330																	
IIG331				IIG332																	
IIG333				IIG334																	
IIG335				IIG336																	
IIG337				IIG338																	
IIG339				IIG340																	
IIG341				IIG342																	
IIG343				IIG344																	
IIG345				IIG346																	
IIG347				IIG348																	
IIG349				IIG350																	
IIG351				IIG352																	
IIG353				IIG354																	
IIG355				IIG356																	
IIG357				IIG358																	
IIG359				IIG360																	
IIG361				IIG362																	
IIG363				IIG364																	
IIG365				IIG366																	
IIG367				IIG368																	
IIG369				IIG370																	
IIG371				IIG372																	
IIG373				IIG374																	
IIG375				IIG376																	
IIG377				IIG378																	
IIG379				IIG380																	
IIG381				IIG382																	
IIG383				IIG384																	
IIG385				IIG386																	
IIG387				IIG388																	
IIG389				IIG390																	
IIG391				IIG392																	
IIG393				IIG394																	
IIG395				IIG396																	
IIG397				IIG398																	
IIG399				IIG400																	
IIG401				IIG402																	
IIG403				IIG404																	
IIG405				IIG406																	
IIG407				IIG408																	
IIG409				IIG410																	
IIG411				IIG412																	
IIG413				IIG414																	
IIG415				IIG416																	
IIG417				IIG418																	
IIG419				IIG420																	
IIG421				IIG422																	
IIG423				IIG424																	
IIG425				IIG426																	
IIG427				IIG428																	
IIG429				IIG430																	
IIG431				IIG432																	
IIG433				IIG434																	
IIG435				IIG436																	
IIG437				IIG438																	
IIG439				IIG440																	
IIG441				IIG442																	
IIG443				IIG444																	
IIG445				IIG446																	
IIG447				IIG448																	
IIG449				IIG450																	
IIG451				IIG452																	
IIG453				IIG454																	
IIG455				IIG456																	
IIG457				IIG458																	
IIG459				IIG460																	
IIG461				IIG462																	
IIG463				IIG464																	
IIG465				IIG466																	
IIG467				IIG468																	
IIG469				IIG470																	
IIG471				IIG472																	
IIG473				IIG474																	
IIG475				IIG476																	
IIG477				IIG478																	
IIG479				IIG480																	
IIG481				IIG482																	
IIG483				IIG484																	
IIG485				IIG486																	
IIG487				IIG488																	
IIG489				IIG490																	
IIG491				IIG492																	
IIG493				IIG494																	
IIG495				IIG496																	
IIG497				IIG498																	
IIG499				IIG500																	
IIG501				IIG502																	
IIG503				IIG504																	
IIG505				IIG506																	
IIG507																					

50 D'Angelo Drive, 495 Technology Center West, Bldg One, Marlborough, MA 01752
TEL: 508-481-6200 FAX: 508-481-7753
www.sgs.com

FED-EX Tracking # 7068 8600 9778
SGS Accutest Quote #

Bottle Order Control 8

SGS Accutest Job

MC49399

[illegible]

MC49399A: Chain of Custody

Page 2 of 4

SGS Accutest Sample Receipt Summary

Job Number: MC49399

Client: _____

Project: _____

Date / Time Received: 1/18/2017 9:20:00 AM

Delivery Method: _____

Airbill #'s: _____

Cooler Temps (Raw Measured) °C: Cooler 1: (1.0);

Cooler Temps (Corrected) °C: Cooler 1: (2.4);

Cooler Security

Y or N

Y or N

- | | | | | | |
|---------------------------|-------------------------------------|--------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Cooler Temperature

Y or N

- | | | |
|------------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Cooler temp verification: | IR Gun | |
| 3. Cooler media: | Ice (Bag) | |
| 4. No. Coolers: | 1 | |

Quality Control Preservation

Y or N

N/A

- | | | | |
|---------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Sample Integrity - Documentation

Y or N

- | | | |
|--|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Condition

Y or N

- | | | |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample: | Intact | |

Sample Integrity - Instructions

Y or N N/A

- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Comments

SM089-02
Rev. Date 12/1/16

MC49399A: Chain of Custody

Page 3 of 4

Job Change Order: MC49399

Requested Date:	1/20/2017	Received Date:	1/17/2017
Account Name:	CB&I	Due Date:	1/31/2017
Project Description:	NRG Montville Lathrop Road, Montville, CT	Deliverable:	CTRCP
CSR:	jeremyv	TAT (Days):	14

=====

Sample #: MC49399-5 **Change:**

Dept:

TAT:

AOC12-MW-305

=====

=====

Sample #: MC49399-8 **Change:**

Dept: Move sample to A job and report metals to MDL

TAT: 14

NRG-MW-05

=====

Above Changes Per:

Date/Time: 1/20/2017 9:19:24 AM

To Client: This Change Order is confirmation of the revisions, previously discussed with the SGS Accutest Client Service Representative.

Page 1 of 1

Internal Sample Tracking Chronicle

SGS Accutest New England

Job No: MC49399A

FDG: NRG Montville Lathrop Road, Montville, CT
Project No: 1009644010 PO#CC

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC49399-8 Collected: 17-JAN-17 10:00 By: AM Received: 17-JAN-17 By: AL NRG-MW-05						

MC49399-8 SW846 6020A	30-JAN-17 16:55	MA	23-JAN-17	RM	ASMS,BEMS,CUMS,NIMS,VMS, ZNMS
-----------------------	-----------------	----	-----------	----	----------------------------------

QC Evaluation: CT RCP Limits

Job Number: MC49399A
Account: SGS Accutest New England
Project: FDG: NRG Montville Lathrop Road, Montville, CT
Collected: 01/17/17

QC Sample ID	CAS#	Analyte	Sample Result Type	Result Type	Units	Limits
--------------	------	---------	--------------------	-------------	-------	--------

No Exceptions found.

* Sample used for QC is not from job MC49399A

Metals Analysis

QC Data Summaries

(SGS Accutest New Jersey)

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: MC49399A
Account: ALNE - SGS Accutest New England
Project: FDG: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP98290
Matrix Type: AQUEOUS

Methods: SW846 6020A
Units: ug/l

Prep Date: 01/23/17

Metal	RL	IDL	MDL	MB raw	final
Aluminum	50	.31	3		
Antimony	4.0	.08	.84		
Arsenic	1.0	.04	.41	0.20	<1.0
Barium	2.0	.012	.24		
Beryllium	1.0	.002	.017	0.029	<1.0
Boron	50	2.5	5.9		
Cadmium	1.0	.014	.075		
Calcium	500	1.6	16		
Chromium	2.0	.032	.13		
Cobalt	1.0	.004	.015		
Copper	4.0	.044	1.1	0.73	<4.0
Iron	50	.3	6.2		
Lead	1.0	.006	.31		
Magnesium	500	.22	3.4		
Manganese	2.0	.024	.41		
Molybdenum	2.0	.05	.53		
Nickel	2.0	.042	.073	0.075	<2.0
Potassium	500	1.7	9.5		
Selenium	1.0	.036	.41		
Silver	1.0	.004	.13		
Sodium	500	2.1	5.4		
Strontium	10	.01	.23		
Thallium	1.0	.014	.39		
Tin	10	.17	.23		
Titanium	2.0	.066	.95		
Vanadium	2.0	.058	.52	0.94	<2.0
Zinc	10	.064	1.8	2.6	<10

Associated samples MP98290: MC49399-8

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC49399A

Account: ALNE - SGS Accutest New England

Project: FDG: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP98290

Methods: SW846 6020A

Matrix Type: AQUEOUS

Units: ug/l

Prep Date:

01/23/17

Metal	BSP Result	Spikelot MP6020AQ	% Rec	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	75.7	80	94.6	80-120
Barium				
Beryllium	78.6	80	98.3	80-120
Boron				
Cadmium	anr			
Calcium				
Chromium				
Cobalt				
Copper	77.4	80	96.8	80-120
Iron				
Lead	anr			
Magnesium				
Manganese				
Molybdenum				
Nickel	77.8	80	97.3	80-120
Potassium				
Selenium	anr			
Silver				
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	80.3	80	100.4	80-120
Zinc	76.3	80	95.4	80-120

Associated samples MP98290: MC49399-8

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

7.1.2

7

SERIAL DILUTION RESULTS SUMMARY

Login Number: MC49399A
 Account: ALNE - SGS Accutest New England
 Project: FDG: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP98290
 Matrix Type: AQUEOUS

Methods: SW846 6020A
 Units: ug/l

Prep Date: 01/23/17

Metal	FA40425-1 Original	SDL 2:10	%DIF	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	4.43	4.20	5.3	0-10
Barium				
Beryllium	0.149	0.134	10.1*(a)	0-10
Boron				
Cadmium	anr			
Calcium				
Chromium				
Cobalt				
Copper	6.10	6.85	12.3*(a)	0-10
Iron				
Lead	anr			
Magnesium				
Manganese				
Molybdenum				
Nickel	3.67	3.07	16.3*(a)	0-10
Potassium				
Selenium	anr			
Silver				
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	8.46	6.45	23.8*(a)	0-10
Zinc	11.8	13.1	10.8*(a)	0-10

Associated samples MP98290: MC49399-8

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested
 (a) Serial dilution indicates possible matrix interference.

Attachment 2

Engineered Control Inspection Reports

**Post-Construction Engineered Control Inspection Checklist
Montville Generating Station, Montville, CT**

Completed by (PRINT): *A. Magginit*

Company: *CB&I*

Signature: *Chris Magginit*

Date: *12-22-16*

Problem Code

ACE 1 or 2 = Aggregate Cover Erosion, Moderate or Severe
ACSW 1 or 2 = Aggregate Cover Subsurface Washout, Moderate or Severe
SCE 1 or 2 = Soil Cover Erosion, Moderate or Severe
SCSW 1 or 2 = Soil Cover Subsurface Washout, Moderate or Severe
GD 1 or 2 = Vegetation Dead, Moderate or Severe
GE 1 or 2 = Vegetation Erosion, Moderate or Severe
GP = Vegetation Water Ponding Observed
GSF = Vegetation Slope Failure
GSW = Vegetation Subsurface Washout

PDSO = Perimeter Drainage Swale Obstructed
DCO = Drainage Culvert Obstructed
AP C1 = Asphalt Pavement Cracks > 1/2 inch
AP C2 = Asphalt Pavement "pothole"
SF = Slope Failure
FSLD = Fencing, Signage, Locks Damaged
SLM = Signage, Locks Missing
O = Other

Remedial Areas (1)	Photo Location (1) (2)	Problem Code	Repair Requirements and Notes (Provide Description) (3)
AOC 3B, Petroleum Storage Area (Day Tank)			
Concrete Engineered Control - W end AOC 3B (interior)	13		good condition, no cracks in concrete
Stone Inside Containment (interior)	14		good condition, very smooth
Aggregate Engineered Control - E side of AOC 3B (exterior)	15		good condition, good coverage
Existing Asphalt Engineered Control - AOC 3B East to river	16		good condition, no visible cracks
Prior Repair Area (4)	NA		
AOC 5, Former Ash Settling Ponds			walk perimeter security fence for inspection; access through locked gate
Access Control Fencing and Signage	17, 18, 19, 20		signs present, fence in good condition
Prior Repair Area (4)	NA	GD2	vegetation moderately overgrown, consider mowing/clearing
AOC 9, Former Dredge Spoils Location			access through locked gate
Low Permeability Engineered Control - East	22		
Surrounding Topsoil and Seeding	24, 26		
Low Permeability Engineered Control - West	23, 25		
Access Control Fencing and Signage	21		
Prior Repair Area (4)	NA		
AOC 12, Former Coal and Coal Ash Handling Area			access to portions of AOC 12 through locked gate(s)
Aggregate Engineered Control - N of AOC 3A	1		good condition, area of disordered ^{grilling} soil ^{grilling} properly covered
Aggregate Engineered Control - AOC 3A and West	2		good condition, no change since construction
Aggregate Engineered Control - S of AOC 3A	4		good condition, no change since construction
Existing Asphalt Engineered Control - E of AOC 3A	3		pavement looks new, no cracks
Aggregate and Rip Rap Shoreline - at and N of dock	6		good condition
Rip Rap Shoreline - S of dock	5		good condition
Existing Asphalt Engineered Control - E of AOC 6	7		good condition looks new
Aggregate Engineered Control - AOC 6 and surround	8		good condition, tire tracks visible but no rutting
Existing Asphalt Engineered Control - W of AOC 6	9		good condition
Existing Asphalt Engineered Control - N and W of Main Bldg.	10, 11		
Aggregate Engineered Control - around AOC 1	12		now covered, good condition
Prior Repair Area (4)			

- Use Sheets 2 and 3 of the As-Built Engineered Control Drawing last revised 2/18/2016 for the Inspection Plan.
- At least one photograph should accompany each location (line item). Mark corresponding photo location number on Inspection Plan.
- Supplementary computations and design text may be required for significant repairs
- Document condition of each area identified and repaired during previous inspection.